HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, JANUARY 5, 1861. [No. 23.

Meteorological Observations, taken at Manchester and the neighbourhood,

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·801	29·797	—	29·835
Highest } Unreduced	—	30·240	30·226	—	30·262
Lowest } Unreduced	—	29·234	29·268	—	29·357
Range	—	1·006	0·958	—	0·905
Temperature.					
Adopted Mean	31·9	31·8	30·0	30·3	28·5
Range for Week	13·5	18·0	22·0	19·7	18·5
Daily Range	6·7	10·4	12·0	10·9	13·2
Maximum in Shade	38·0	38·0	39·0	39·4	38·0
Minimum in Shade	24·5	20·0	16·0	19·7	19·5
Maximum in Sun	—	44·0	47·2	59·5	49·5
Maximum in Sun: Black bulb in Vacuo	—	41·2	—	—	—
Minimum on Grass	—	11·8	14·5	15·8	17·5
Temperature in Ground at surface	—	31·56	26·70	—	—
Temperature 6 inches below	—	31·91	31·23	—	—
Temperature 12 inches below	—	33·50	32·74	—	—
Temperature of Evaporation	30·9	30·7	28·6	—	27·8
Temperature of Dew Point	28·7	28·1	24·2	—	25·2
Temperature of Air—Dew Point	3·2	3·7	5·8	—	3·3
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	1·87	1·79	1·50	—	1·60
Required to Saturate do	0·23	0·31	0·50	—	0·25
Weight of a cubic foot of Air	562·0	563·1	564·3	—	566·8
Degree of Humidity (Saturation—1,000)	0·872	0·849	0·770	—	0·870
	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	2·19	2·13	1·80	—	2·10
Elastic force of Vapour	0·158	0·154	0·130	—	0·152
Clouds (Covered—10 Clear—0)	—	9·3	6·8	—	6·3
Prevailing Winds	—	N.E. & E.	S.E.&N.E.	E. & S.E.	S.E. & E.
Rain	—	0·158	0·540	—	—
Days on which it fell	—	3	4	—	—
Ozonometer.					
Moffat (0—10)	—	0·28	—	—	—
Schonbein (0—10)	—	0·00	—	—	—
	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·022	0·025	0·037	—	0·020
Weekly Evaporation	0·154	0·175	0·259	—	0·140

There were 6 barometric oscillations during the week, the amount being 2·300 inches: this is the largest amount since the week ending October 20th, 1860.

The mean temperature of the week was 6·9° below the average of the last twelve years. Snow fell upon the 30th December, followed by rain at night. The 31st December and 1st January were rough and stormy.

Ozone occurred upon one day during the week at Old Trafford. The mean temperature decreased from the Royal Infirmary to Sale, increased slightly at Bowdon, but at Thelwall again decreased; this place having the lowest temperature of all. The range of temperature increased from the Royal Infirmary to Sale, and decreased from Sale to Thelwall. The minimum temperature on the grass shows a progressive increase from Old Trafford to Thelwall. For humidity the stations stood in the following order, commencing with the station having the greatest humidity: Royal Infirmary, Thelwall, Old Trafford, Sale. This is the third week during which frost has continued with but slight intermission.

ERRATA.—In last week's return the negative sign —— was omitted before the minimum temperatures in the shade at Old Trafford and Sale; and also before the minimum upon the grass at Old Trafford, Sale, and Bowdon.

Old Trafford, Manchester,
January 9th, 1861.

G. V. VERNON, F.R.A.S.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Paup

During the Week endin

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	1	..	..	..	..	1	2	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	..	..	..	..	1	3	..	..	2	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	1	..	..	2	..	..	..
Whooping-cough	..	..	..	..	1	1	..	..	..	..	..	..	1	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Diarrhœa	..	..	1	2	..	3	2	..	..	..	2	..	2	4
Dysentery	..	..	1	..	..	1	..	..	..	..	..	..	1	1
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	..	..	1	..	2	..	..	1	..	3	3
Erysipelas	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	1	1	1	..	..	3	4	..	10	6	1	1	..	..
Constitutional Syphilis	..	..	..	..	..	..	..	..	4	..	1	..	..	1
Phthisis	..	..	..	..	1	1	2	..	12	4	1	4	..	..
Mesenteric Disease	..	..	..	..	..	..	1	..	1	..	..	..	1	..
Disease of Heart	..	..	..	..	..	..	..	..	3	1	1	4	..	..
Insanity	..	..	..	..	1	1	4	..	..	..	..	..	..	..
Bronchitis	3	5	7	4	5	24	38	1	59	9	5	10	2	1
Influenza and Catarrh	..	3	..	2	6	11	7	..	7	4	..	..	1	..
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	1	..	..	..	..	1	..	1
Dyspepsia	..	..	..	..	..	..	3	..	8	3	1	..	..	2
Kidney Disease	..	..	..	..	1	1	1	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	3	..	2	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	2	..	..	..	..	2	2	..	1	..	..	..	2	2
Accidents and diseases not classified	4	4	..	7	5	20	37	34	161	11	4	6	14	9
Total	12	13	11	15	20	71	107	38	269	40	22	26	28	24

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,

5th day of January, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
....1,329.....				.... 477....			.. 646..		508.	....	...	.....	Area in Statute Acres.
.. 63,851.				.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
LAW RICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
16 Regent Road.	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	1	..	4	Small-pox
..	..	1	..	..	..	..	..	..	..	..	..	1	Chicken-pox
..	..	1	..	..	..	..	..	..	..	..	..	7	Measles
..	..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	3	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	..	2	Whooping-cough
..	..	..	..	..	..	..	..	..	..	1	..	2	Croup
..	2	..	..	..	..	..	..	..	..	..	1	17	Diarrhœa
..	..	..	..	..	..	..	1	..	..	..	..	4	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	..	..	..	..	..	2	..	13	Continued Fever
..	..	1	..	..	..	..	..	..	..	..	1	3	Erysipelas
..	..	..	..	..	..	..	..	..	..	1	..	1	Puerperal Fever
..	..	2	..	..	..	2	..	1	1	2	1	35	Rheumatism
..	..	..	..	..	..	..	..	..	..	2	..	9	Constitutional Syphilis
..	..	3	..	..	1	2	1	..	..	2	1	35	Phthisis
..	..	..	..	..	..	..	..	1	..	..	..	4	Mesenteric Disease
..	..	2	..	..	..	..	..	..	..	1	1	13	Disease of Heart
..	2	..	..	..	1	..	..	..	..	..	2	11	Insanity
..	6	17	2	1	1	8	5	17	..	19	4	229	Bronchitis
..	4	8	12	2	2	4	1	2	..	1	3	70	Influenza and Catarrh
..	..	..	1	..	..	..	..	..	2	..	..	3	Pleurisy
..	..	..	..	..	..	..	..	1	..	..	7	11	Pneumonia
..	..	5	..	..	2	2	..	2	..	2	1	32	Dyspepsia
..	..	..	..	..	..	..	1	..	..	1	..	4	Kidney Disease
..	..	..	..	2	..	..	1	..	..	..	..	8	Neuralgic Affections
..	1	..	..	..	..	..	1	1	..	..	..	3	Carbuncle
..	1	2	..	..	..	..	..	..	..	..	..	12	Ophthalmia
..	8	57	8	2	4	8	2	9	4	36	..	442	Accidents and diseases not classified
‖ ..	24	99	23	7	11	26	13	34	7	71	22	978	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) " J. O. FLETCHER,
(4) " C. S. BOMPAS,
(5) " EVAN THOMAS,
(6) " J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD,
(10) (11) Mr. J. S. DAVIES,
(12) " W. J. MALLETT,
" H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) " J. TEALE,
(16) " M. O. LARMUTH,
(17) " T. F. BROWNBILL
(18) Mr. J. O. BRADBURY,
(19) " W. B. STOTT,
(20) " T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) " E. HALLEY,
(25) " J. M. KIRKMAN.
(26) " N. PICKFORD,
(27) " GEO. GREAVES.

‖ Returns not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for 4 weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	....
Measles	..	..	..	..	..	1	..	1	..	..	2	2
Scarlatina	..	.	..	..	1	..	..	..	..	..	1	1
Diarrhœa	1	1	..	1	..	1	2	..	..	..	6	5
Fever	1	..	..	..	..	..	..	..	..	..	1	4
Diseases of the Lungs	17	10	..	5	3	8	4	12	18	5	82	70
Other causes	16	17	28	7	8	8	13	4	10	5	116	135
TOTAL NO. OF DEATHS.	35	28	28	13	12	18	19	17	28	10	208	217
TOTAL NO. OF BIRTHS.	43	27	18	15	13	24	33	21	53	25	272	280

Monthly Return of New Cases of Disease coming under Treatment

In 11 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.*

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 27th October.	4 Weeks ending 24th November.	5 Weeks ending 29th December.	TOTAL.	DISEASES.	4 Weeks ending 27th October.	4 Weeks ending 24th November.	5 Weeks ending 29th December.	TOTAL.
14	9	10	33	.... Small-pox	5	7	10	22
18	22	19	59	.... Chicken-pox	8	5	15	28
61	62	54	177	..... Measles	12	27	24	63
26	16	30	72	.... Scarlatina	14	11	5	30
..	....	1	1	.... Diphtheria	..	1	..	2
41	27	49	117	.. Whooping-cough ..	10	11	7	28
..	3	1	4	..... Croup	..	3	..	3
264	198	183	645	.....Diarrhœa.. ...	165	90	98	353
5	9	8	22	.... Dysentery	25	7	10	42
1	....	..	1	..... Cholera	..	....	..	....
35	21	45	101	.. Continued Fever ..	137	105	102	344
8	19	16	43	.... Erysipelas	27	27	24	78
..	1	..	1	.. Puerperal Fever ..	2	1	1	4
61	59	90	210	.... Rheumatism	139	172	202	513
18	13	25	56	..... Insanity	24	42	41	107
596	720	1020	2336	Bronchitis and Catarrh	645	862	1112	2619
13	15	18	46	..... Pleurisy	11	17	24	52
14	18	26	58	.. Pneumonia	46	33	28	107
4	5	3	12	.... Carbuncle	10	8	8	26
3298	3320	3475	10093	Accidents, and all other Diseases	2806	2739	3176	8721
4477	4537	5073	14087	..... TOTAL	4086	4168	4888	13142

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, JANUARY 12, 1861. [No. 24.

Meteorological Observations, taken at Manchester and the neighbourhood,

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	30·079	30·069	—	30·079
Highest } Unreduced	—	30·231	30·224	—	30·248
Lowest } Unreduced	—	29·808	29·806	—	29·868
Range	—	0·423	0·418	—	0·380
Temperature.					
Adopted Mean	31·4	29·5	30·0	28·9	29·4
Range for Week	21·0	26·2	31·0	25·5	22·6
Daily Range	8·3	10·7	12·8	8·6	8·4
Maximum in Shade	42·0	41·2	43·5	40·5	38·8
Minimum in Shade	21·0	15·0	12·5	15·0	16·2
Maximum in Sun	—	41·4	48·5	49·8	44·0
Maximum in Sun: Black bulb in Vacuo	—	44·7	—	—	—
Minimum on Grass	—	12·0	11·0	13·2	15·0
Temperature in Ground at surface	—	30·26	30·51	—	—
Temperature 6 inches below	—	31·13	30·04	—	—
Temperature 12 inches below	—	32·89	32·13	—	—
Temperature of Evaporation	30·6	28·3	28·9	—	28·4
Temperature of Dew Point	28·7	24·3	25·4	—	25·0
Temperature of Air—Dew Point	2·7	5·2	4·6	—	4·4
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	1·82	1·55	1·65	—	1·62
Required to Saturate do	0·28	0·40	0·35	—	0·32
Weight of a cubic foot of Air	568·0	570·2	569·5	—	570·4
Degree of Humidity (Saturation—1,000)	0·882	0·805	0·815	—	0·834
	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	2·18	1·81	1·89	—	1·87
Elastic force of Vapour	0·158	0·131	0·137	—	0·135
Clouds (Covered—10 Clear—0)	—	7·0	5·5	—	5·0
Prevailing Winds	—	S.E.	S.E &S.W	S.E.	S.E.&S.W
Rain	—	0·024	0·050	0·000	—
Days on which it fell	—	3	2	0	—
Ozonometer.					
Moffat (0—10)	—	0·28	—	—	—
Schonbein (0—10)	—	0·00	—	—	—
	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·018	0·032	0·030	—	0·027
Weekly Evaporation	0·126	0·224	0·210	—	0·189

There were 8 oscillations during the past week, the amount being 0·820 inches; this is a large number of oscillations, but each one of small amount.

The mean temperature of the week was 7·4° below the average of the same week for twelve years, and, at the same time, colder than any corresponding week for that period. The temperature increased at 8 a.m. from 18·8° upon the 7th, to 38·2° upon the 12th, being a gradual advance each day, averaging 3·9° daily; this was general at all the stations except Sale and Thelwall, having a slight decrease of temperature upon the 10th. The mean temperature of the stations did not vary much, the Royal Infirmary being the warmest, and Bowdon the coldest. The range of temperature increased from the Royal Infirmary to Sale, and decreased from there to Thelwall. Old Trafford was the driest station during the week, and the Royal Infirmary the most humid. Ozone was found at Old Trafford on one day only during the week.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
January 15th, 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week endin

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	1	1	2	..	..	3	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	1	1	..	1	3	1	..	1	..	..	..	1	2
Dysentery	1	..	..	..	..	1	..	1	..	..	1	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	..	..	1	2	..	1	3	..	..	6	..
Erysipelas	..	..	1	..	..	1	2	..	..	..	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	1	2	..	1	1	5	5	..	10	..	2	3	1	..
Constitutional Syphilis	..	..	..	..	..	..	3	1	3	1	2	..	..	..
Phthisis	..	..	..	..	..	..	4	..	21	8	..	3	1	..
Mesenteric Disease	..	..	..	..	2	2	..	..	2	..	..	..	1	..
Disease of Heart	..	..	..	..	..	..	..	1	4	2	1	6	1	1
Insanity	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Bronchitis	7	5	10	2	7	31	43	3	72	19	5	12	5	3
Influenza and Catarrh	..	6	..	10	6	22	7	..	12	6	1	..	4	..
Pleurisy	..	..	1	..	..	1	2	..	1	1	..	..	..	..
Pneumonia.....	..	1	..	..	..	1	..	..	..	2	..	1	1	1
Dyspepsia	1	..	..	..	..	1	4	..	17	2	..	..	3	2
Kidney Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	..	..	1	1	..	2	1	..	..	..	..	..	2	..
Accidents and diseases not classified	3	11	2	11	6	33	56	24	193	9	7	12	25	5
Total.....	13	26	17	25	24	105	135	30	337	56	19	37	51	14

SANITARY ASSOCIATION.

, and Public Institutions of Manchester and adjoining Districts,

12*th day of January*, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
...1,329.....				.... 477.....			.. 646...		508	....	....	.....	Area in Statute Acres.
. 63,851.				.. 53,470. ..			.. 35,546 ..		16180	....	....	.....	Population in 1851.
LAW ICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 16	Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Ancoats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	..	..	..	2	1	..	..	10	Measles
..	..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..		1	..	..	1	2	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	2	2	2	1	1	..	..	..	1	..	..	17	Diarrhœa
..	..	..	..	1	..	..	..	1	..	..	..	6	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	..	4	1	2	2	4	..	29	Continued Fever
..	1	..	..	..	..	..	..	2	..	..	..	6	Erysipelas
..	1	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever
..	1	3	1	..	..	2	2	2	1	3	3	45	Rheumatism
..	..	..	..	..	..	..	1	..	..	2	1	14	Constitutional Syphilis
..	2	6	..	..	1	1	..	1	..	2	3	53	Phthisis
..	..	2	..	..	..	1	2	..	..	..	..	10	Mesenteric Disease
..	..	5	1	..	..	..	..	..	..	..	1	23	Disease of Heart
..	3	..	..	..	..	..	..	..	..	..	2	7	Insanity
..	5	21	1	1	..	5	4	12	..	20	3	267	Bronchitis
..	3	..	6	1	3	3	3	..	..	4	6	85	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	..	..	..	5	Pleurisy
..	..	2	..	..	..	..	1	..	..	..	2	11	Pneumonia
..	2	7	..	..	..	1	..	4	..	2	1	47	Dyspepsia
..	..	5	..	..	..	..	1	..	..	..	..	6	Kidney Disease
..	..	4	..	1	..	1	..	..	..	1	..	8	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
..	..	1	1	..	..	..	..	..	..	..	..	7	Ophthalmia
..	7	76	10	6	2	7	2	12	1	51	..	543	Accidents and diseases not classified
..	27	134	22	11	7	25	17	39	6	89	23	1202	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) " J. O. FLETCHER,
(4) " C. S. BOMPAS,
(5) " EVAN THOMAS,
(6) " J. BROADBENT,

(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD, Mr. J. S. DAVIES,
(10) (11) " W. J. MALLETT,
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(26) " N. PICKFORD,
(27) " GEO. GREAVES.

|| Returns not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowen.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for 4 weeks.
Small Pox	1	..	..	..	1	..	..	..	..	..	2	1
Measles	1	1	1	..	..	1	..	1	..	..	5	3
Scarlatina	1	.	..	..	..	..	1	..	..	..	2	1
Diarrhœa	..	1	3	1	1	3	..	..	..	..	9	7
Fever	..	1	..	2	1	1	1	2	..	..	8	4
Diseases of the Lungs ..	23	26	..	..	11	13	..	12	17	2	104	84
Other causes.....	15	15	37	19	9	9	16	7	23	4	154	151
TOTAL NO. OF DEATHS.	41	44	41	22	23	27	18	22	40	6	284	251
TOTAL NO. OF BIRTHS.	46	37	16	21	27	40	16	31	55	21	310	281

Monthly Return of New Cases of Disease coming under Treatment

In 11 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.*

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 27th October.	4 Weeks ending 24th November.	5 Weeks ending 29th December.	TOTAL.	DISEASES.	4 Weeks ending 27th October.	4 Weeks ending 24th November.	5 Weeks ending 29th December.	TOTAL.
14	9	10	33	.... Small-pox	5	7	10	22
18	22	19	59	.... Chicken-pox	8	5	15	28
61	62	54	177	..... Measles	12	27	24	63
26	16	30	72	.... Scarlatina ...	14	11	5	30
..	....	1	1	.... Diphtheria	..	1	..	2
41	27	49	117	.. Whooping-cough ..	10	11	7	28
..	3	1	4	..... Croup	..	3	..	3
264	198	183	645	.....Diarrhœa.. ...	165	90	98	353
5	9	8	22	.... Dysentery	25	7	10	42
1	....	..	1	..... Cholera	..	....	..	....
35	21	45	101	.. Continued Fever ..	137	105	102	344
8	19	16	43	.... Erysipelas	27	27	24	78
..	1	..	1	.. Puerperal Fever ..	2	1	1	4
61	59	90	210	.... Rheumatism	139	172	202	513
18	13	25	56	..... Insanity	24	42	41	107
596	720	1020	2336	Bronchitis and Catarrh	645	862	1112	2619
13	15	18	46	..... Pleurisy	11	17	24	52
14	18	26	58	.. Pneumonia	46	33	28	107
4	5	3	12	.... Carbuncle	10	8	8	26
32 98	3320	3475	10093	Accidents, and all other Diseases	2806	2739	3176	8721
4477	4537	5073	14087	..... TOTAL	4086	4168	4888	13142

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

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33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, JANUARY 19, 1861. [No. 25.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD,

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·993	29·988	—	30·000
Highest (Unreduced)	—	30·234	30·220	—	30·269
Lowest (Unreduced)	—	29·586	29·622	—	29·600
Range	—	0·648	0·598	—	0·669
Temperature.					
Adopted Mean	34·2	33·5	33·9	32·8	32·2
Range for Week	13·0	13·2	17·7	18·0	11·8
Daily Range	6·1	7·7	7·8	8·3	4·4
Maximum in Shade	41·0	40·2	43·7	42·5	36·3
Minimum in Shade	28·0	27·0	26·0	24·5	24·5
Maximum in Sun	—	41·0	53·8	62·0	41·0
Maximum in Sun: Black bulb in Vacuo	—	43·4	—	—	—
Minimum on Grass	—	25·0	21·8	21·0	21·0
Temperature in Ground at surface	—	32·00	31·75	—	—
Temperature 6 inches below	—	32·13	32·31	—	—
Temperature 12 inches below	—	32·96	32·38	—	—
Temperature of Evaporation	32·4	32·5	32·7	—	31·1
Temperature of Dew Point	29·3	30·7	30·6	—	28·7
Temperature of Air—Dew Point	4·9	2·8	3·3	—	3·5
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	1·88	2·00	1·97	—	1·86
Required to Saturate do	0·44	0·25	0·32	—	0·26
Weight of a cubic foot of Air	563·0	564·8	563·3	—	565·6
Degree of Humidity (Saturation—1,000)	0·814	0·880	0·865	—	0·864
	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	2·24	2·38	2·36	—	2·18
Elastic force of Vapour	0·162	0·172	0·171	—	0·158
Clouds (Covered—10 Clear—0)	—	7·1	7·1	—	6·6
Prevailing Winds	—	N.E.&S.E.	N.E&S.W	N.E. & E.	S.E.&E.
Rain	—	0·065	0·130	0·070	—
Days on which it fell	—	3	3	1	—
Ozonometer.					
Moffat (0—10)	—	0·00	—	—	—
Schonbein (0—10)	—	0·00	—	—	—
	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·035	0·020	0·024	—	0·024
Weekly Evaporation	0·245	0·140	0·168	—	0·168

There were 5 barometric oscillations during the week, the total amount being 1·091 inches; or rather more than the preceding week.

The mean temperature of the week was 4·7° below the average of the corresponding week for twelve years. The temperature declined 4·6° between the 13th and 16th, rose suddenly 10·1° upon the 17th, and gradually fell 7·0° to the 19th. Snow fell upon three days during the week.

The temperature, upon the whole, declined at each station as the city was receded from; the only variation being a slight increase at Sale.

The daily range of temperature increased progressively from the Royal Infirmary to Bowdon, but at Thelwall it fell considerably, being very small at the latter place. The humidity did not vary much, but was the least at the Royal Infirmary.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
January 22nd, 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week ending

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1851	" " 198,162														
	Poor Law Districts.						Public Institutions.								
								Royal Infirmary.					Children		
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.	1
Small-pox	..	1	..	..	..	1	1	1	..	..	..	..	..	..	
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Measles	..	1	..	..	..	1	..	..	..	1	..	..	..	..	
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diphtheria	..	..	..	..	..	..	..	..	..	..	1	..	..	..	
Whooping-cough	..	..	..	..	2	2	..	..	..	..	..	..	..	..	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhœa	1	2	..	..	2	5	1	..	..	1	..	..	4	4	
Dysentery	..	..	2	..	..	2	..	..	1	..	..	..	..	..	
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Continued Fever	..	..	..	..	..	..	..	1	..	..	1	..	1	..	
Erysipelas	..	..	..	..	..	..	..	..	2	..	..	..	1	..	
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatism	..	..	..	..	..	..	2	1	13	2	2	1	1	..	
Constitutional Syphilis	..	..	..	..	..	..	2	..	11	1	1	..	..	..	
Phthisis	1	..	..	2	3	6	5	..	16	3	2	3	2	..	
Mesenteric Disease	..	..	..	..	..	..	2	..	..	..	..	..	..	..	
Disease of Heart	..	..	..	..	..	..	1	..	8	4	..	4	..	..	
Insanity	..	..	..	..	1	1	8	..	..	..	..	..	..	..	
Bronchitis	2	3	8	2	1	16	35	2	68	13	4	12	9	2	9
Influenza and Catarrh	..	2	..	2	5	9	1	..	10	3	..	2	4	1	1
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pneumonia.....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
Dyspepsia	3	..	1	..	..	4	5	..	22	1	2	..	..	1	1
Kidney Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Neuralgic Affections	..	..	..	2	..	2	..	..	1	..	3	..	..	..	
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ophthalmia.....	..	..	..	..	..	..	..	..	..	.	..	..	2	1	1
Accidents and diseases not classified	7	4	3	13	7	34	44	37	202	9	9	5	23	6	6
Total.....	14	13	14	21	21	83	107	42	354	38	25	27	47	17	1

SANITARY ASSOCIATION.

, and Public Institutions of Manchester and adjoining Districts,

19*th day of January*, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
...1,329.....				.... 477.....			.. 646..		508.	....	....	.....	Area in Statute Acres.
. 63,851.				.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
LAW ICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 16	Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Anccats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	3	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	1	..	..	..	1	..	1	..	..	..	6	Measles
..	..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	1	..	..	..	..	..	2	..	..	..	5	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	1	3	5	1	1	3	..	1	..	1	..	31	Diarrhœa
..	..	..	..	..	..	..	..	..	1	..	..	4	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	1	..	..	..	1	..	..	..	7	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	1	4	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	..	7	2	..	..	..	..	4	1	5	3	44	Rheumatism
..	..	..	..	..	..	..	..	..	..	1	..	16	Constitutional Syphilis
..	1	4	..	..	1	..	..	2	2	6	2	57	Phthisis
..	..	2	..	..	..	..	1	..	..	..	..	5	Mesenteric Disease
..	..	..	..	..	..	..	..	..	..	1	..	18	Disease of Heart
..	1	..	..	..	..	..	..	..	..	..	2	12	Insanity
..	2	31	..	2	3	10	4	19	1	14	3	253	Bronchitis
..	4	12	5	1	2	1	3	4	5	2	4	73	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	..	..	..	..	Pleurisy
.	..	2	..	..	..	..	..	..	..	..	2	6	Pneumonia
.	..	9	..	..	..	..	..	9	..	4	1	60	Dyspepsia
.	..	..	..	..	..	..	..	..	..	..	..	..	Kidney Disease
.	..	2	..	2	..	..	1	..	1	1	1	14	Neuralgic Affections
.	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
.	..	..	..	..	..	..	..	..	..	2	..	5	Ophthalmia
.	4	68	9	2	5	11	5	11	2	33	..	529	Accidents and diseases not classified
.	13	142	21	9	12	26	14	54	13	70	19	1153	Total

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Small Pox	..	..	..	..	..	..	..	..	..	..	..	1
Measles	..	..	1	..	..	..	..	1	2	..	4	3
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1
Diarrhœa	..	..	..	1	..	1	2	..	..	..	4	7
Fever	1	..	1	..	..	..	..	3	..	..	5	5
Diseases of the Lungs	16	12	..	2	7	8	..	6	13	2	66	87
Other causes	22	14	31	3	10	9	23	11	19	8	150	162
TOTAL NO. OF DEATHS.	39	26	33	6	17	18	25	21	34	10	229	265
TOTAL NO. OF BIRTHS.	39	45	14	17	18	42	28	25	48	20	296	289

Monthly Return of New Cases of Disease coming under Treatment

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26	16	30	72	.... Scarlatina	14	11	5	30
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41	27	49	117	.. Whooping-cough ..	10	11	7	28
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Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, JANUARY 26, 1861. [No. 26.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	30·026	30·016	—	30·030
Highest } Unreduced	—	30·354	30·348	—	30·392
Lowest } Unreduced	—	29·611	29·634	—	29·602
Range	—	0·743	0·714	—	0·790
Temperature.					
Adopted Mean	42·6	40·6	41·0	39·4	39·9
Range for Week	23·0	25·0	29·2	24·7	28·6
Daily Range	10·2	12·3	11·5	12·3	10·3
Maximum in Shade	55·0	55·0	55·2	53·9	54·3
Minimum in Shade	32·0	30·0	26·0	29·2	25·7
Maximum in Sun	—	55·0	57·0	64·4	59·0
Maximum in Sun: Black bulb in Vacuo	—	57·8	—	—	—
Minimum on Grass	—	25·7	24·5	25·0	25·0
Temperature in Ground at surface	—	35·35	36·81	—	—
Temperature 6 inches below	—	34·34	34·08	—	—
Temperature 12 inches below	—	34·33	33·08	—	—
Temperature of Evaporation	41·1	39·7	39·9	—	38·9
Temperature of Dew Point	39·3	38·6	38·5	—	37·6
Temperature of Air—Dew Point	3·3	2·0	2·5	—	2·3
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·77	2·75	2·68	—	2·68
Required to Saturate do	0·39	0·21	0·32	—	0·21
Weight of a cubic foot of Air	553·6	555·9	555·4	—	556·9
Degree of Humidity (Saturation—1,000)	0·880	0·928	0·912	—	0·920
	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·32	3·24	3·22	—	3·11
Elastic force of Vapour	0·240	0·234	0·233	—	0·225
Clouds (Covered—10 Clear—0)	—	10·0	7·2	—	9·7
Prevailing Winds	—	S.& S.E.	S.W.	S.E.	S.&S.W.
Rain	—	0·274	0·240	0·200	0·256
Days on which it fell	—	3	4	4	3
Ozonometer.					
Moffat (0—10)	—	0·71	—	—	—
Schonbein (0—10)	—	0·00	—	—	—
	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·033	0·019	0·024	—	0·021
Weekly Evaporation	0·231	0·133	1·068	—	0·147

There were 3 barometric oscillations during the week, the amount being 1·539 inches.

The mean temperature of the week was 1·5° above the average of the last twelve years. The temperature gradually fell 5·6° between the 20th and 22nd, rose 6·0° upon the 23rd, fell 2·8° upon the 24th, rose 14·0° upon the 25th, and fell 3·4° upon the 26th; the total amount of these oscillations was 37·4°, which is more than double that of last week. Fog prevailed upon the 20th and 21st, being very dense upon the former day. Ozone made its appearance, accompanying the sudden advance of temperature, upon the 25th; it was found upon two days only.

The mean temperature on the whole diminished as the city was receded from. The quantity of moisture was the largest at Old Trafford, and the least at the Royal Infirmary.

The fall of rain did not vary much at the different stations, but was the least at Bowdon.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
January 29th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in P

During the Week en

	MANCHESTER.													
Area in Statute Acres	..... Manchester Township 1,645													
Population in 1851	..... " " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital
Small-pox	..	1	..	..	..	1	..	1	..	..	1	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	1	..	..	1	2	2	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	3	..	..	1	2
Diphtheria	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Whooping-cough	..	..	.	..	2	2	..	..	..	..	..	..	1	..
Croup	..	1	..	..	..	1	..	..	..	..	..	..	..	..
Diarrhœa	..	1	1	2	..	4	6	..	..	1	1	..	6	1
Dysentery	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	..	..	1	1	..	1	..	..	1	2	1
Erysipelas	..	..	..	1	..	1	..	..	2	..	..	1	2	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	1	1	..	..	..	2	..	2	6	1	5	2	..	..
Constitutional Syphilis	..	..	..	..	..	..	1	..	7	..	..	..	1	..
Phthisis	1	..	..	..	1	2	6	1	16	5	1	..	..	1
Mesenteric Disease	..	2	..	..	1	3	1	..	..	..	..	..	..	..
Disease of Heart	..	..	..	..	..	..	2	1	2	2	..	1	..	..
Insanity	1	..	..	..	..	1	2	..	..	..	..	..	..	..
Bronchitis	4	3	3	8	5	23	23	1	73	7	4	9	4	..
Influenza and Catarrh	..	4	..	4	6	14	3	1	..	4	..	3	6	2
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia.....	..	1	..	..	..	1	..	..	..	3	..	..	..	1
Dyspepsia	..	..	..	..	..	..	5	1	27	..	..	..	..	1
Kidney Disease	..	..	..	..	..	..	..	1	2	..	1	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	6	1	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	..	1	1	..	..	2	2	..	..	.	..	..	2	..
Accidents and diseases not classified	3	6	6	5	9	29	42	39	218	7	6	16	37	11
Total.....	10	22	13	20	25	90	96	49	360	34	19	33	62	20

SANITARY ASSOCIATION.

, and Public Institutions of Manchester and adjoining Districts,

e 26th day of January, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
...1,329.....				.... 477.....			.. 646..		508	....	....	.....	Area in Statute Acres.
. 63,851.				.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
LAW ICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 16	Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Ancoats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
..	..	1	..	..	1	..	..	..	..	..	..	5	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	2	..	..	..	1	..	..	..	..	..	7	Measles
..	..	..	..	..	1	..	..	..	..	..	..	7	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	1	..	..	..	1	..	2	..	..	..	7	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	1	Croup
..	2	..	3	..	..	1	..	..	..	2	1	28	Diarrhœa
..	..	1	..	..	..	..	..	..	..	..	..	2	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	1	..	..	..	2	..	3	..	4	1	20	Continued Fever
..	..	1	..	..	..	..	..	..	..	2	1	10	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	1	8	1	1	4	2	..	1	..	3	1	43	Rheumatism
..	..	..	..	..	..	1	..	..	..	..	..	10	Constitutional Syphilis
..	1	6	..	1	..	..	..	1	..	4	2	48	Phthisis
..	..	2	..	..	..	..	..	..	..	1	..	7	Mesenteric Disease
..	..	4	..	..	..	..	1	1	..	1	..	16	Disease of Heart
..	1	..	..	..	..	..	..	..	..	..	..	5	Insanity
..	3	22	..	..	..	7	4	15	1	4	2	204	Bronchitis
..	3	15	5	2	..	1	2	4	3	4	2	76	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	..	..	..	..	Pleurisy
..	..	..	..	..	..	..	..	..	..	..	1	6	Pneumonia
..	..	9	..	1	..	..	1	3	..	2	1	53	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	..	4	Kidney Disease
..	..	1	..	1	..	..	..	1	..	1	..	11	Neuralgic Affections
..	..	1	..	..	..	..	..	..	..	..	..	1	Carbuncle
..	..	..	..	..	..	..	1	2	1	1	..	12	Ophthalmia
..	3	52	10	1	4	4	4	16	3	64	..	573	Accidents and diseases not classified
..	14	127	19	7	10	20	13	49	8	93	12	1157	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,

(7) Mr. M. ROWLAND DAY,
(8) Dr. JOHN MEDD,
(9) Mr. J. S. DAVIES,
(10) ,, W. J. MALLETT,
(11) ,, H. RUNCORN,
(12) ,,

(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) ,, J. TEALE,
(16) ,, M. O. LARMUTH,
(17) ,, T. F. BROWNBILL

(18) Mr. J. O. BRADBURY,
(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.

(23) Mr. W. B. MIDWOOD,
(24) ,, E. HALLEY,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, GEO. GREAVES.

|| Return not received on receipt of

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for 4 weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	3	..	..	..	..	..	..	..	..	4	4
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1
Diarrhœa	..	..	2	..	..	1	..	..	1	..	4	6
Fever	1	1	2	..	..	1	1	..	1	..	7	5
Diseases of the Lungs ..	20	9	..	1	3	9	2	9	17	7	77	82
Other causes.....	15	8	30	6	5	12	12	6	19	4	117	134
TOTAL NO. OF DEATHS.	37	21	34	7	8	23	15	15	38	11	209	232
TOTAL NO. OF BIRTHS.	50	41	27	27	23	33	23	29	49	16	318	299

Monthly Return of New Cases of Disease coming under Treatment

In 11 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.*

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 27th October.	4 Weeks ending 24th November.	5 Weeks ending 29th December.	TOTAL.	DISEASES.	4 Weeks ending 27th October.	4 Weeks ending 24th November.	5 Weeks ending 29th December.	TOTAL.
14	9	10	33	.... Small-pox	5	7	10	22
18	22	19	59	.... Chicken-pox	8	5	15	28
61	62	54	177	..... Measles	12	27	24	63
26	16	30	72	.... Scarlatina	14	11	5	30
..	....	1	1	.... Diphtheria	..	1	..	2
41	27	49	117	.. Whooping-cough ..	10	11	7	28
..	3	1	4	..... Croup	..	3	..	3
264	198	183	645	.....Diarrhœa.. ...	165	90	98	353
5	9	8	22	.... Dysentery	25	7	10	42
1	....	..	1	..... Cholera	..	....	..	....
35	21	45	101	.. Continued Fever ..	137	105	102	344
8	19	16	43	.... Erysipelas	27	27	24	78
..	1	..	1	.. Puerperal Fever ..	2	1	1	4
61	59	90	210	.... Rheumatism	139	172	202	513
18	13	25	56	..... Insanity	24	42	41	107
596	720	1020	2336	Bronchitis and Catarrh	645	862	1112	2619
13	15	18	46	..... Pleurisy	11	17	24	52
14	18	26	58	... Pneumonia	46	33	28	107
4	5	3	12	.... Carbuncle	10	8	8	26
32 98	3320	3475	10093	{ Accidents, and all other Diseases }	2806	2739	3176	8721
4477	4537	5073	14087	..... TOTAL	4 86	4168	4888	13142

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, FEBRUARY 2, 1861. [No. 27.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw. A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	30·051	30·016	—	30·049	29·180
Highest } Unreduced	—	30·546	30·500	—	30·600	29·656
Lowest } Unreduced	—	29·897	29·920	—	29·903	29·084
Range	—	0·649	0·580	—	0·697	0·572
Temperature.						
Adopted Mean	44·9	42·4	42·8	43·3	43·2	43·7
Range for Week	16·0	24·6	27·0	24·0	20·5	25·3
Daily Range	7·9	12·7	12·8	11·9	8·8	10·7
Maximum in Shade	53·0	54·6	55·5	54·2	53·5	58·5
Minimum in Shade	37·0	30·0	28·5	30·2	33·0	32·2
Maximum in Sun	—	62·4	62·0	67·0	58·5	68·0
Maximum in Sun: Black bulb in Vacuo	—	69·9	—	—	—	—
Minimum on Grass	—	25·0	25·7	28·5	28·5	29·0
Temperature in Ground at surface	—	40·02	39·97	—	—	—
Temperature 6 inches below	—	39·82	40·15	—	—	—
Temperature 12 inches below	—	39·92	40·35	—	—	—
Temperature of Evaporation	43·4	41·7	41·2	—	42·3	42·9
Temperature of Dew Point	41·7	40·8	39·3	—	41·2	41·9
Temperature of Air—Dew Point	3·2	1·6	3·5	—	2·0	1·8
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	3·03	2·97	2·78	—	2·97	3·10
Required to Saturate do	0·36	0·17	0·40	—	0·25	0·17
Weight of a cubic foot of Air	551·5	554·3	553·2	—	553·4	536·9
Degree of Humidity (Saturation—1,000)	0·889	0·944	0·872	—	0·928	0·936
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·65	3·53	3·32	—	3·58	3·68
Elastic force of Vapour	0·264	0·255	0·240	—	0·259	0·266
Clouds (Covered—10 Clear—0)	—	6·6	6·1	—	5·9	7·1
Prevailing Winds	—	S.E.	S.W.	S.	S.&S.W.	S.E.&W.
Rain	—	0·009	0·020	0·000	0·008	0·060
Days on which it fell	—	2	2	0	1	2
Ozonometer.						
Moffat (0—10)	—	1·71	—	—	3·85	4·50
Schonbein (0—10)	—	0·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·034	0·016	0·035	—	0·020	0·019
Weekly Evaporation	0·238	0·112	0·245	—	0·140	0·133

The number of barometric oscillations during the week was 5, and the amount 1·020 inches; this is only about two-thirds that of the preceding week. There were 3 temperature oscillations at 8 a.m., and the amount was 35·6°. The mean temperature of the week was 5·8° below the average of the last twelve years, and higher than any corresponding week for that period. The fall of rain for January at Old Trafford was 0·388 inches; and, excepting 1833 and 1838, was the lowest fall for this month since 1786.

During the week the mean temperature in the city was the highest, and in the country did not vary much, but was the highest at Ollerenshaw, which is the highest station of all. The height of most of the stations shall be given as early as possible. The least amount of humidity occurred at Sale, and the largest at Old Trafford; the Royal Infirmary was also comparatively dry. Ozone occurred upon four days at Old Trafford, and on every day at Thelwall and Ollerenshaw; Thelwall had the most Ozone during the day, and Ollerenshaw during the night.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
February 5th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in Pa

During the Week end

	MANCHESTER.													
Area in Statute Acres	..... Manchester Township 1,645													
Population in 1851	..... " " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Measles	1	..	..	..	..	1	..	..	..	..	..	..	1	..
Scarlatina	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Whooping-cough	1	..	..	..	..	1	..	..	..	..	..	..	..	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Diarrhœa	..	1	1	..	3	5	5	..	..	1	..	..	5	2
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	..	..	1	..	..	1	..	..	1	3	..
Erysipelas	..	..	..	2	..	2	2	..	1	1	1	..	2	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	..	3	..	3	4	5	15	1	..	3	1	..
Constitutional Syphilis	..	..	..	..	..	..	..	..	4	1	1	..	1	1
Phthisis	..	1	..	..	..	1	4	..	32	4	3	..	3	2
Mesenteric Disease	..	1	..	..	2	3	1	..	..	..	..	..	2	..
Disease of Heart	..	2	..	..	..	2	..	1	5	4	..	..	..	..
Insanity	..	..	..	..	1	1	3	..	..	..	..	..	..	..
Bronchitis	..	2	6	3	2	13	19	..	77	9	3	2	8	3
Influenza and Catarrh	..	3	..	4	4	11	7	..	6	..	3	2	5	..
Pleurisy	..	1	..	..	..	1	1	..	..	..	..	..	..	..
Pneumonia.....	..	..	..	..	..	..	..	..	..	..	..	..	1	2
Dyspepsia	..	..	..	..	2	2	1	1	36	5	1	..	3	2
Kidney Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	10	..	..	..	..	1
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	..	..	..	..	..	..	..	..	1	..	1	..	3	1
Accidents and diseases not classified	4	7	2	7	7	27	52	25	239	6	9	7	49	4
Total.....	6	18	10	19	21	74	100	32	427	33	22	15	88	21

* Had been Vaccinated.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
2nd day of February, 1861.

SALFORD.			HULME.			CHORLTON.		ARDWICK				
..1,329.			.... 477.			.. 646.		508.	....	....	.....	Area in Statute Acres.
63,851.			.. 53,470.			.. 35,546		16180	....	....	.....	Population in 1851.
Regent Road.	Public Institutions.		Poor Law Districts.									
16	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Anecats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	1 *	..	2	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox
..	..	1	..	..	..	..	..	..	..	..	..	3	Measles
..	..	..	..	..	..	..	..	..	..	..	..	1	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	..	..	..	..	..	1	6	..	..	..	9	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	1	Croup
..	1	1	9	1	..	1	..	1	..	..	..	32	Diarrhœa
..	..	2	..	..	..	..	1	..	..	..	..	3	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	2	..	2	..	5	..	1	..	4	..	21	Continued Fever
..	..	1	..	..	..	..	..	2	..	..	..	12	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	1	5	..	2	..	..	..	3	1	4	2	51	Rheumatism
..	1	1	..	..	..	..	..	1	..	..	..	11	Constitutional Syphilis
..	..	8	..	..	1	1	1	1	..	5	1	67	Phthisis
..	..	1	..	..	..	..	..	..	..	..	1	8	Mesenteric Disease
..	..	2	..	..	..	..	..	..	..	1	..	15	Disease of Heart
..	1	..	..	..	..	..	..	..	..	1	2	9	Insanity
..	2	25	..	..	..	7	..	15	2	18	2	208	Bronchitis
..	2	3	3	..	1	2	..	2	..	4	3	56	Influenza and Catarrh
..	..	1	..	..	..	..	..	..	..	..	..	3	Pleurisy
..	1	..	..	..	..	..	..	..	..	..	1	5	Pneumonia
..	..	8	..	1	..	1	1	3	..	2	1	69	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	..	..	Kidney Disease
..	..	..	..	..	1	..	..	1	..	..	1	14	Neuralgic Affections
..	..	..	1	..	..	..	..	1	..	..	1	3	Carbuncle
..	..	..	..	..	..	..	..	1	..	..	..	7	Ophthalmia
..	4	75	7	2	4	7	1	15	1	47	..	591	Accidents and diseases not classified
..	13	136	20	8	7	24	5	53	4	87	15	1203	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) " EVAN THOMAS,
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(25) " J. M. KIRKMAN.
(26) " N. PICKFORD,
(27) " GEO. GREAVES.

|| Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for 4 weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	..	..	..	..	..	..	1	1	..	3	4
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	1	..	..	..	1	1	..	1	..	4	5
Fever	3	..	..	..	1	..	1	1	1	..	7	7
Diseases of the Lungs	8	9	..	5	7	4	1	7	9	3	53	75
Other causes	12	12	..	3	9	9	9	8	14	4	80	125
TOTAL NO. OF DEATHS.	24	22	23	8	17	14	12	17	26	7	170	223
TOTAL NO. OF BIRTHS.	44	49	18	23	25	26	19	19	54	14	291	303

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 24th November.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	TOTAL.	DISEASES.	4 Weeks ending 24th November.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	TOTAL.
9	10	4	23	.... Small-pox	7	10	12	29
22	19	11	52	.... Chicken-pox	5	15	1	21
62	54	31	147	..... Measles	27	24	30	81
16	30	21	67	.... Scarlatina	11	5	7	23
....	1	1	2	.... Diphtheria	1	..	5	6
27	49	53	129	.. Whooping-cough ..	11	7	16	34
3	1	1	5	..... Croup	3	..	3	6
198	183	162	543	.....Diarrhœa.. ...	90	98	93	281
9	8	6	23	.... Dysentery	7	10	16	33
....	..	..	..	..... Cholera	....	..	..	....
21	45	14	80	.. Continued Fever ..	105	102	69	276
19	16	24	59	.... Erysipelas	27	24	23	74
1	..	..	1	.. Puerperal Fever ..	1	1	2	4
59	90	115	264	.... Rheumatism	172	202	167	541
13	25	10	48	..... Insanity	42	41	35	118
720	1020	1312	3052	Bronchitis and Catarrh	862	1112	1257	3231
15	18	18	51	..... Pleurisy	17	24	8	49
18	26	30	74	... Pneumonia	33	28	34	95
5	3	8	16	.... Carbuncle	8	8	4	20
3320	3475	3067	9862	Accidents, and all other Diseases	2739	3176	2708	8623
4537	5073	4888	14498	..... TOTAL	4168	4887	4490	13546

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Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, FEBRUARY 9, 1861. [No. 28.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw. A. NEILD, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·531	29.551	—	29·528	28·702
Highest } Unreduced	—	30·315	30·238	—	30·572	29·452
Lowest } Unreduced	—	29·086	29·134	—	29·063	28·264
Range	—	1·229	1·104	—	1·509	1·188
Temperature.						
Adopted Mean	42·6	42·0	42·0	40·8	42·2	40·0
Range for Week	12·8	20·2	20·0	18·7	17·2	16·3
Daily Range	6·6	10·2	10·6	10·6	8·6	8·5
Maximum in Shade	49·8	51·0	51·0	49·5	49·2	49·0
Minimum in Shade	37·0	30·8	31·0	30·8	32·0	32·7
Maximum in Sun	—	61·2	60·0	62·2	54·2	56·0
Maximum in Sun: Black bulb in Vacuo	—	71·2	—	—	—	—
Minimum on Grass	—	25·5	27·5	26·5	30·2	28·5
Temperature in Ground at surface	—	39·70	40·87	—	—	—
Temperature 6 inches below	—	39·55	40·19	—	—	—
Temperature 12 inches below	—	40·14	41·05	—	—	—
Temperature of Evaporation	40·9	40·5	40·1	—	40·9	39·1
Temperature of Dew Point	38·9	38·6	37·7	—	39·4	37·9
Temperature of Air—Dew Point	3·7	3·4	4·3	—	2·8	2·1
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·72	2·70	2·62	—	2·76	2·63
Required to Saturate do	0·44	0·40	0·48	—	0·36	0·33
Weight of a cubic foot of Air	544·8	545·3	545·7	—	545·1	532·1
Degree of Humidity (Saturation—1,000)	0·871	0·885	0·857	—	0·899	0·928
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·28	3·24	3·12	—	3·32	3·15
Elastic force of Vapour	0·237	0·234	0·226	—	0·241	0·228
Clouds (Covered—10 Clear—0)	—	9·6	8·8	—	8·2	10·0
Prevailing Winds	—	S.	SW.&NE.	S.&S.W.	S.&E.	S.W.&E.
Rain	—	1·422	1·250	1·460	1·675	1·090
Days on which it fell	—	5	6	5	5	5
Ozonometer.						
Moffat (0—10)	—	3·93	—	—	5·50	6·00
Schonbein (0—10)	—	2·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·036	0·033	0·041	—	0·028	0·019
Weekly Evaporation	0·252	0·231	0·287	—	0·196	0·133

There were 4 barometric oscillations during the week, and the amount was 2·423 inches. There were 6 temperature oscillations, and the amount 25·6°. The mean temperature of the week was 3·2°. above the average of the last twelve years, the temperature of the first four days was above the average, and that of the three last days about the average.

Ozone occurred upon five days at Old Trafford, six days at Thelwall, and seven days at Ollerenshaw.

The fall of rain was very heavy upon the 8th, and was at Old Trafford, 0·960 inches; Sale, 0·580 inches; Bowdon, 1·000 inches; Thelwall, 1·035 inches; and Ollerenshaw, 0·610 inches.

The mean temperature was nearly uniform at all the stations, being the lowest at Ollerenshaw, and the highest at the Royal Infirmary. The humidity varied but slightly at the different stations, and was the lowest at Sale, and the highest at Ollerenshaw.

Snow fell generally at most of the stations upon the 8th and 9th; a heavy gale blowing upon the 9th.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
February 12th, 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week endi

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	..	..	..	..	..	..	1*	..	..	..	..	1	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	1	1	1	..	..	..	..	..	1	1
Scarlatina	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	2	2	4	1	..	4	..	..	1	1	4
Dysentery	..	..	..	..	..	..	..	..	..	..	..	2	..	1
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	1	..	1	..	..	2	..	1	..	..	1	..	7	..
Erysipelas	..	2	..	..	1	3	..	1	..	1	2	1	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	1	1	1	2	..	5	..	2	15	1	2	2	..	..
Constitutional Syphilis	..	..	..	..	..	..	..	..	6	..	..	..	1	..
Phthisis	..	1	1	..	..	2	2	..	9	4	1	1	1	..
Mesenteric Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Disease of Heart	..	1	..	..	..	1	1	1	6	4	1	2	..	1
Insanity	..	..	..	..	..	..	5	..	..	..	..	..	..	..
Bronchitis	..	5	3	..	1	9	19	..	45	6	4	3	6	4
Influenza and Catarrh	..	5	..	2	2	9	3	..	11	..	..	2	4	..
Pleurisy	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Pneumonia	..	..	..	..	..	..	1	..	..	..	..	..	2	2
Dyspepsia	..	..	1	..	..	1	1	..	27	1	..	1	..	..
Kidney Disease	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Neuralgic Affections	..	..	1	..	..	1	..	..	4	..	2	..	1	..
Carbuncle	..	..	..	..	..	..	..	..	3	..	..	..	..	..
Ophthalmia	..	..	1	..	..	1	4	..	..	..	..	..	2	1
Accidents and diseases not classified	4	7	5	11	2	29	41	37	188	13	8	11	29	6
Total	6	22	14	17	9	68	80	42	318	32	21	28	56	21

* Not Vaccinated. † Said to have been Vaccinated.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
th day of February, 1861.

LFORD.			HULME.			CHORL-TON.		ARD-WICK				
1,329			477			646		508				Area in Statute Acres.
63,851			53,470			35,546		16180				Population in 1851.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Anecats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	3	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	1	..	..	..	..	..	..	..	..	..	5	Measles
..	..	..	..	..	..	..	..	..	..	..	1	Scarlatina
..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	2	..	..	..	1	1	8	..	..	..	14	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
1	..	1	..	..	1	..	1	..	2	..	21	Diarrhœa
..	1	..	..	..	1	..	..	..	..	..	5	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	3	..	2	..	2	..	1	..	2	..	23	Continued Fever
..	2	..	..	..	..	..	1	..	..	..	11	Erysipelas
1	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever
..	8	3	..	..	..	..	3	1	6	3	52	Rheumatism
..	1	..	..	..	..	..	1	..	..	..	10	Constitutional Syphilis
..	3	..	..	..	..	..	4	..	2	2	31	Phthisis
..	1	..	..	..	..	2	..	..	..	..	3	Mesenteric Disease
..	2	..	..	..	..	..	..	..	..	1	20	Disease of Heart
4	..	..	..	..	..	..	..	..	..	2	11	Insanity
4	22	..	..	1	5	1	12	..	26	1	173	Bronchitis
2	8	7	..	1	..	..	1	..	5	3	59	Influenza and Catarrh
..	2	..	..	..	..	..	..	..	..	..	3	Pleurisy
..	..	..	..	..	..	..	..	..	..	..	5	Pneumonia
..	9	3	..	..	1	..	7	..	1	..	52	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	1	Kidney Disease
..	2	..	..	..	..	..	1	..	..	1	12	Neuralgic Affections
..	..	1	..	..	..	..	..	..	..	1	5	Carbuncle
..	..	..	..	1	..	..	1	..	..	..	10	Ophthalmia
17	106	11	2	6	5	3	13	3	26	3	562	Accidents and diseases not classified
29	173	26	4	9	16	7	54	4	70	17	1093	Total

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Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	1	..	1	..	..	..	1	..	..	3	4
Scarlatina	..	..	..	..	..	1	..	..	..	..	1	..
Diarrhœa	2	..	..	..	..	..	..	..	3	..	5	4
Fever	..	2	..	..	..	1	2	..	1	..	6	6
Diseases of the Lungs	12	5	..	3	6	8	5	7	14	2	62	64
Other causes	13	11	..	7	10	12	9	6	12	3	83	107
TOTAL NO. OF DEATHS.	27	19	11	11	16	22	16	14	30	5	171	185
TOTAL NO. OF BIRTHS.	29	51	13	14	29	32	16	17	50	14	265	292

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.*

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4537	5073	4888	14498	..... TOTAL	4168	4887	4490	13545

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Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, FEBRUARY 16, 1861. [No. 29.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw. A. NEILD, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·711	29·721	—	29·724	29·002
Highest } Unreduced	—	30·280	30·306	—	30·336	29·604
Lowest } Unreduced	—	29·344	29·358	—	29·355	28·656
Range	—	0·936	0·948	—	0·981	0·948
Temperature.						
Adopted Mean	35·6	34·4	34·2	32·8	35·5	31·6
Range for Week	25·0	29·0	34·2	27·0	29·8	24·0
Daily Range	10·2	15·2	14·1	12·2	10·8	9·5
Maximum in Shade	50·0	51·0	52·2	48·9	50·5	44·0
Minimum in Shade	25·0	22·0	18·0	21·9	20·7	20·0
Maximum in Sun	—	63·4	62·5	62·0	59·6	50·2
Maximum in Sun: Black bulb in Vacuo	—	78·0	—	—	—	—
Minimum on Grass	—	17·7	17·0	19·7	18·3	16·1
Temperature in Ground at surface	—	33·78	32·58	—	—	—
Temperature 6 inches below	—	34·39	35·23	—	—	—
Temperature 12 inches below	—	35·89	36·68	—	—	—
Temperature of Evaporation	34·4	32·9	32·6	—	34·7	30·3
Temperature of Dew Point	32·5	30·4	29·8	—	33·5	27·2
Temperature of Air—Dew Point	3·1	4·0	4·4	—	2·0	4·4
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·08	2·01	1·98	—	2·20	1·73
Required to Saturate do	0·38	0·33	0·34	—	0·25	0·37
Weight of a cubic foot of Air	556·2	557·8	558·0	—	557·0	547·5
Degree of Humidity (Saturation—1,000)	0·886	0·846	0·834	—	0·925	0·825
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	2·54	2·35	2·30	—	2·65	2·05
Elastic force of Vapour	0·184	0·170	0·166	—	0·192	0·148
Clouds (Covered—10 Clear—0)	—	6·9	6·7	—	5·5	7·0
Prevailing Winds	—	N.E.&S.E.	NE.&SW.	N.&N.E.	E.&S.	E.&N.W.
Rain	—	0.529	0·290	0·210	0·363	0·340
Days on which it fell	—	6	5	4	5	4
Ozonometer.						
Moffat (0—10)	—	2·00	—	—	2·49	3·35
Schonbein (0—10)	—	0·43	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·024	0·029	0·031	—	0·016	0·030
Weekly Evaporation	0·168	0·203	0·217	—	0·112	0·210

There were 5 barometric oscillations during the week, the amount being 2·315 inches. There were 3 temperature oscillations, the amount being 29·8°. The mean temperature of the week was 2·7° below the average of the last twelve years. From the 10th to the 12th the temperature, at 8 a.m., fell 11·3°, rose 6·0° upon the 13th, fell 8·0° upon the 14th, and rose upon the 16th 9·8°.

With the exception of Thelwall, the mean temperature diminished progressively in the order the stations stand in our table. The daily range was the greatest at Old Trafford, and the least at Ollerenshaw. The humidity was the greatest at Thelwall, and the least at Ollerenshaw. Ozone occurred upon 2 days at Old Trafford, and upon 5 each at Thelwall and Ollerenshaw. The heights of the barometer cisterns at the several stations are as follows:—

Royal Infirmary	153 feet	(Level of Piccadilly.)	Bowdon	218 feet.
Old Trafford	123 ,,	(Height of barometer cistern.)	Thelwall	96 ,, (Barometer cistern.)
,,	106 ,,	(Height of other instruments)	Ollerenshaw	808 ,, ,, ,,
Sale	134 ,,	(Barometer cistern.)		

Excepting the Royal Infirmary, each observer is responsible for the altitudes stated.

Old Trafford, Manchester,
February 19th, 1861.

G. V. VERNON, F.R.A.S.

MANCHESTER AND

New Cases of Disease coming under Treatment in P

During the Week en

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital
Small-pox	..	*1	..	..	..	1	1	1	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	2	1	..	..	..	3	..	..	..	3	..	..	1	..
Scarlatina	..	..	..	..	..	..	..	..	..	4	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Whooping-cough	..	..	.	..	..	..	..	..	2	..	..	..	..	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Diarrhœa	..	..	..	1	..	1	4	..	1	..	..	..	1	3
Dysentery	..	..	1	..	..	1	1	..	..	..	..	..	1	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	2	..	..	2	..	..	..	..	..	..	4	1
Erysipelas	..	..	..	1	..	1	1	1	1	1	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	1	..	..	1	3	1	10	..	1	1	..	..
Constitutional Syphilis	..	..	1	..	..	1	..	..	7	..	..	..	..	..
Phthisis	..	1	1	..	1	3	1	..	19	..	3	..	..	..
Mesenteric Disease	..	..	..	..	..	..	1	..	..	..	..	..	1	..
Disease of Heart	..	..	..	..	..	..	..	2	7	..	..	2	..	..
Insanity	..	1	..	..	..	1	2	..	..	..	..	..	..	..
Bronchitis	2	1	3	..	..	6	17	..	49	4	6	10	8	3
Influenza and Catarrh	..	3	..	6	7	16	4	..	4	4	..	2	4	..
Pleurisy	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Pneumonia.....	..	..	..	..	..	..	..	..	2	..	..	1	..	2
Dyspepsia	..	1	..	1	..	2	2	1	21	4	2	1	2	2
Kidney Disease	..	..	..	..	..	..	..	2	3	..	1	..	..	..
Neuralgic Affections	..	..	..	1	..	1	..	..	6	..	..	1	..	..
Carbuncle	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Ophthalmia.....	..	..	..	1	..	1	2	..	..	..	..	..	1	2
Accidents and diseases not classified	4	6	1	5	3	19	40	39	180	15	10	7	29	9
Total.....	8	15	10	16	11	60	81	47	312	36	23	25	52	25

* Not Vaccinated, confluent very severe.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
16*th day of February*, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
..1,329.				.... 477.			.. 646.		508	....	....	.....	Area in Statute Acres.
63,851.				.. 53,470.			.. 35,546		16180	....	....	.....	Population in 1851.
AW CTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anccats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	..	3	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	..	..	..	2	..	..	..	9	Measles
..	..	..	..	..	..	..	..	..	..	..	1	5	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	1	..	..	..	..	..	5	..	..	..	9	Whooping-cough
..	..	..	..	..	..	..	..	1	..	..	..	3	Croup
..	2	..	1	..	..	1	..	4	..	..	1	20	Diarrhœa
..	..	..	..	..	..	..	..	1	..	..	..	4	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	1	1	..	..	..	1	..	10	Continued Fever
..	1	..	..	1	..	..	..	2	..	2	..	11	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	..	5	..	..	1	..	..	4	1	1	1	33	Rheumatism
..	..	..	..	..	..	..	..	..	..	2	..	11	Constitutional Syphilis
..	1	6	..	..	..	..	2	2	..	2	2	41	Phthisis
..	..	..	..	..	..	..	..	..	..	1	..	3	Mesenterie Disease
..	..	2	..	1	..	..	..	1	..	1	..	16	Disease of Heart
..	..	..	..	..	..	..	..	..	..	..	1	4	Insanity
..	4	19	1	..	1	5	2	12	4	10	2	167	Bronchitis
..	6	7	5	2	3	2	1	4	..	4	2	72	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	1	..	1	3	Pleurisy
..	..	..	..	..	..	..	..	..	..	..	..	5	Pneumonia
..	..	11	..	..	..	..	..	5	..	2	1	57	Dyspepsia
..	..	1	1	..	..	..	..	..	..	..	2	10	Kidney Disease
..	..	1	..	..	..	..	1	..	..	..	1	11	Neuralgie Affections
..	..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
..	..	1	1	..	..	..	..	1	..	..	..	9	Ophthalmia
..	13	72	9	7	3	7	5	10	1	47	..	528	Accidents and diseases not classified
..	27	126	18	11	9	16	11	54	7	73	15	1046	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD,
(10) (11) Mr. J. S. DAVIES,
(12) ,, W. J. MALLETT,
,, H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) ,, J. TEALE,
(16) ,, M. O. LARMUTH,
(17) ,, T. F. BROWNBILL
(18) Mr. J. O. BRADBURY,
(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) ,, E. HALLEY,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, GEO. GREAVES.

|| Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	2	..	..	..	..	..	..	..	..	2	4
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	4	1	..	1	1	..	..	1	..	8	4
Fever	..	..	1	..	..	1	..	1	..	..	3	6
Diseases of the Lungs	14	4	..	..	1	8	3	8	7	3	48	64
Other causes	14	10	38	9	14	18	13	6	13	1	136	107
TOTAL NO. OF DEATHS.	28	20	40	9	16	28	16	15	21	4	197	185
TOTAL NO. OF BIRTHS.	46	29	43	26	20	43	43	29	39	16	334	292

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 24th November.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	TOTAL.	DISEASES.	4 Weeks ending 24th November.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	TOTAL.
9	10	4	23	.... Small-pox	7	10	12	29
22	19	11	52	.... Chicken-pox	5	15	1	21
62	54	31	147	..... Measles	27	24	30	81
16	30	21	67	.... Scarlatina	11	5	7	23
....	1	1	2	.... Diphtheria	1	..	5	6
27	49	53	129	.. Whooping-cough ..	11	7	16	34
3	1	1	5	..... Croup	3	..	3	6
198	183	162	543	.....Diarrhœa.. ...	90	98	93	281
9	8	6	23	.... Dysentery	7	10	16	33
....	..	..	..	..... Cholera	....	..	..	....
19	16	24	59	.... Erysipelas	27	24	23	74
1	..	..	1	.. Puerperal Fever ..	1	1	2	4
13	25	10	48	..... Insanity	42	41	35	118
720	1020	1312	3052	Bronchitis and Catarrh	862	1112	1257	3231
15	18	18	51	..... Pleurisy	17	24	8	49
18	26	30	74	... Pneumonia	33	28	34	95
5	3	8	16	.... Carbuncle	8	8	4	20
3320	3475	3067	9862	Accidents, and all other Diseases	2739	3176	2708	8623
4457	4938	4759	14154	..... TOTAL	3891	4583	4254	12728

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Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

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VOL. I.] WEEK ENDING SATURDAY, FEBRUARY 23, 1861. [No. 30.

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Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·387	29·412	—	29·370	28·549
Highest } Unreduced	—	29·694	29·726	—	29·702	28·772
Lowest } Unreduced	—	28·712	29·148	—	28·862	28·364
Range	—	0·982	0·578	—	0·840	0·408
Temperature.						
Adopted Mean	45·3	44·4	44·3	44·3	44·1	41·7
Range for Week	12·0	16·2	17·8	18·8	15·3	13·0
Daily Range	8·0	10·4	11·7	11·9	10·0	8·3
Maximum in Shade	52·0	53·0	53·8	53·8	52·5	49·0
Minimum in Shade	40·0	36·8	36·0	35·0	37·2	36·0
Maximum in Sun	—	65·0	63·7	67·3	61·0	63·5
Maximum in Sun: Black bulb in Vacuo	—	71·3	—	—	—	—
Minimum on Grass	—	31·3	31·2	31·0	34·0	32·5
Temperature in Ground at surface	—	40·64	41·68	—	—	—
Temperature 6 inches below	—	40·28	41·40	—	—	—
Temperature 12 inches below	—	40·49	41·65	—	—	—
Temperature of Evaporation	43·3	42·6	42·5	—	43·0	40·4
Temperature of Dew Point	41·0	40·5	40·4	—	41·7	38·8
Temperature of Air—Dew Point	4·3	3·9	3.9	—	2·4	2·9
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·93	2·88	2·87	—	2·99	2·75
Required to Saturate do	0·53	0·46	0·46	—	0·32	0·32
Weight of a cubic foot of Air	538·9	539·8	540·5	—	539·7	527·4
Degree of Humidity (Saturation—1,000)	0·853	0·864	0·862	—	0·913	0·903
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·55	3·39	3·47	—	3·65	3·26
Elastic force of Vapour	0·257	0·252	0·251	—	0·264	0·236
Clouds (Covered—10 Clear—0)	—	7·2	7·3	—	7·0	7·2
Prevailing Winds	—	SW. & NE.	SW. & SE.	—	S.W. & S.	S.E.
Rain	—	0·470	0·430	0·480	0·643	0·650
Days on which it fell	—	4	3	4	3	4
Ozonometer.						
Moffat (0—10)	—	4·86	—	—	5·86	5·15
Schonbein (0—10)	—	3·43	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·046	0·041	0·041	—	0·025	0·028
Weekly Evaporation	0·322	0·287	0·287	—	0·175	0·196

There were 8 barometer oscillations during the week, the amount being 2·694. There were 6 temperature oscillations, the amount being 17·3°.

The mean temperature of the week was 6·8° above the average of the last twelve years, and, with one exception, was the warmest week of the series. The mean temperature at the Royal Infirmary was the highest during the week; at the next four stations it was nearly uniform, and at Ollerenshaw slightly lower, no doubt owing to the height of this station. The total range, and daily range of temperature, increased from the Royal Infirmary to Bowdon, and decreased from there to Ollerenshaw. The greatest degree of humidity occurred at Thelwall, and the least at the Royal Infirmary.

Rain fell at all the stations upon about the same number of days; the largest quantities fell at Ollerenshaw and Thelwall. Ozone occurred upon 6 days at Old Trafford, and upon 7 each at Ollerenshaw and Thelwall.

The middle of the week was very stormy and boisterous all over the country, and, on the night of the 21st, in many places, blew a perfect hurricane.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
February 26th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in P

During the Week en

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	2	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	3	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	2	..	..	..	..	2	2	..	..	..	..	1	5	3
Dysentery	..	..	..	..	..	..	..	..	..	3	..	..	..	1
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	3	..	..	3	2	..	..	..	2	..	4	1
Erysipelas	..	..	..	..	..	..	1	..	..	..	1	..	..	..
Puerperal Fever	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Rheumatism	..	1	..	..	..	1	3	..	17	1	1	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	1	..	3	..	..	..	7	..
Phthisis	..	1	1	..	2	4	2	1	23	1	2	..	..	..
Mesenteric Disease	..	..	..	..	..	..	1	..	3	..	..	..	..	..
Disease of Heart	..	..	..	..	..	..	1	1	11	3	3	2	1	..
Insanity	1	1	..	..	..	2	7	..	1	..	..	..	..	..
Bronchitis	3	6	5	..	..	14	13	1	63	3	3	2	12	5
Influenza and Catarrh	..	2	..	3	4	9	5	..	1	..	..	..	4	..
Pleurisy	..	..	1	..	..	1	1	..	..	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Dyspepsia	1	..	1	..	1	3	..	..	34	..	..	2	2	3
Kidney Disease	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	10	..	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	1	..	2	..	..	..	3	..
Accidents and diseases not classified	3	6	..	3	6	18	40	36	224	7	10	9	38	6
Total	10	17	11	7	13	58	81	39	393	24	22	16	76	20

* From fractured Rib.

SANITARY ASSOCIATION.

e, and Public Institutions of Manchester and adjoining Districts,
e 23rd day of February, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
...1,329.....				.... 477.....			.. 646...		508	....	...	.....	Area in Statute Acres.
. 63,851.				.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
LAW ICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 16	Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Ancoats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
..	..	1	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	1	..	..	..	..	..	..	1	Chicken-pox
..	..	..	..	..	..	..	..	2	..	..	..	4	Measles
..	..	..	..	..	..	..	..	1	..	..	..	4	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	3	..	..	..	..	..	6	..	..	..	9	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	1	..	1	..	..	..	..	2	..	..	1	18	Diarrhœa
..	..	..	..	1	..	..	..	1	..	..	..	6	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	..	2	..	1	..	2	..	17	Continued Fever
..	1	3	..	1	..	..	..	3	..	1	..	11	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever
..	1	7	1	..	1	3	2	2	1	3	1	45	Rheumatism
..	..	1	..	1	..	1	..	..	..	2	..	18	Constitutional Syphilis
..	1	9	..	..	..	..	..	2	..	4	1	50	Phthisis
..	..	..	..	..	..	..	1	..	..	1	..	6	Mesenteric Disease
..	..	5	..	..	..	..	..	1	1	1	..	31	Disease of Heart
..	3	..	..	..	..	..	..	..	..	..	1	14	Insanity
..	3	19	..	..	5	5	3	18	1	9	..	181	Bronchitis
..	7	10	7	..	2	..	1	7	..	3	2	58	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	..	1	1	4	Pleurisy
..	..	2	..	..	..	..	1	2	..	..	*1	8	Pneumonia
..	..	6	..	1	..	1	..	9	..	3	..	65	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	..	1	Kidney Disease
..	..	2	..	..	..	..	..	..	1	..	1	14	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
..	..	..	..	1	..	..	..	..	..	1	1	9	Ophthalmia
..	9	37	7	6	6	6	5	8	2	56	..	533	Accidents and diseases not classified
..	26	105	16	11	15	18	13	65	6	87	10	1110	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
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(7) Mr. M. ROWLAND DAY,
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(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
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(22) Mr. H. M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) ,, E. HALLEY,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, GEO. GREAVES.

|| Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	*2	..	..	..	..	..	..	..	..	..	2	..
Measles	..	..	..	..	..	..	..	1	..	..	1	3
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	..	..	1	2	..	..	2	5	5
Fever	1	..	1	1	..	1	..	..	1	1	6	6
Diseases of the Lungs	10	10	..	..	6	†9	2	7	11	3	58	60
Other causes	32	9	54	15	8	8	14	11	14	4	169	104
TOTAL NO. OF DEATHS.	‡45	19	55	16	14	19	18	19	26	10	241	178
TOTAL NO. OF BIRTHS.	45	30	13	26	23	25	16	26	53	23	280	302

* Aged 8 years and 33 years. † 1 Inquest. ‡ 10 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 24th November.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	TOTAL.	DISEASES.	4 Weeks ending 24th November.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	TOTAL.
9	10	4	23	.... Small-pox	7	10	12	29
22	19	11	52	.... Chicken-pox	5	15	1	21
62	54	31	147	..... Measles	27	24	30	81
16	30	21	67	.... Scarlatina	11	5	7	23
....	1	1	2	.... Diphtheria	1	..	5	6
27	49	53	129	.. Whooping-cough ..	11	7	16	34
3	1	1	5	..... Croup	3	..	3	6
198	183	162	543	.....Diarrhœa.. ...	90	98	93	281
9	8	6	23	.... Dysentery	7	10	16	33
....	..	..	..	..... Cholera	....	..	..	....
19	16	24	59	.... Erysipelas	27	24	23	74
1	..	..	1	.. Puerperal Fever ..	1	1	2	4
13	25	10	48	..... Insanity	42	41	35	118
720	1020	1312	3052	Bronchitis and Catarrh	862	1112	1257	3231
15	18	18	51	..... Pleurisy	17	24	8	49
18	26	30	74	... Pneumonia	33	28	34	95
5	3	8	16	.... Carbuncle	8	8	4	20
3320	3475	3067	9862	Accidents, and all other Diseases	2739	3176	2708	8623
4457	4938	4759	14154	..... TOTAL	3891	4583	4254	12728

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, MARCH 2, 1861. [No. 31.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·760	29·793	—	29·773	28·935
Highest (Unreduced)	—	30·216	30·196	—	30·238	29·324
Lowest (Unreduced)	—	29·307	29·348	—	29·325	28·620
Range	—	0·909	0·848	—	0·913	0·704
Temperature.						
Adopted Mean	41·1	39·3	39·2	39·3	40·3	38·7
Range for Week	18·0	25·8	26·0	23·3	22·5	16·8
Daily Range	10·1	16·2	16·2	15·5	12·8	9·5
Maximum in Shade	52·0	53·8	52·5	51·3	51·5	49·0
Minimum in Shade	34·0	28·0	26·5	28·0	29·0	32·2
Maximum in Sun	—	67·8	60·0	69·0	61·0	62·0
Maximum in Sun: Black bulb in Vacuo	—	84·4	—	—	—	—
Minimum on Grass	—	25·0	22·8	24·6	27·0	25·5
Temperature in Ground at surface	—	37·37	37·34	—	—	—
Temperature 6 inches below	—	37·88	38·83	—	—	—
Temperature 12 inches below	—	39·21	40·57	—	—	—
Temperature of Evaporation	38·9	38·1	38·0	—	39·7	37·5
Temperature of Dew Point	36·2	36·5	36·4	—	39·0	35·9
Temperature of Air—Dew Point	4·9	2·8	2·8	—	1·3	2·8
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·47	2·50	2·48	—	2·78	2·48
Required to Saturate do	0·54	0·33	0·34	—	0·15	0·29
Weight of a cubic foot of Air	550·8	552·6	555·3	—	551·8	537·9
Degree of Humidity (Saturation—1,000)	0·828	0·888	0·904	—	0·952	0·903
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	2·96	2·99	2·97	—	3·29	2·92
Elastic force of Vapour	0·214	0·216	0·215	—	0·238	0·211
Clouds (Covered—10 Clear—0)	—	7·6	7·7	—	5·8	7·9
Prevailing Winds	—	S.W.	S.W.	S.W.N&S.	S.W.W.	SW&NW.
Rain	—	0·375	1·060	0·360	0·923	0·490
Days on which it fell	—	3	4	3	3	5
Ozonometer.						
Moffat (0—10)	—	2·28	—	—	3·78	5·15
Schonbein (0—10)	—	1·28	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·044	0·026	0·025	—	0·028	0·024
Weekly Evaporation	0·308	0·168	0·175	—	0·196	0·168

There were 7 barometric oscillations during the week, the amount being 2·189 ins. The number of temperature oscillations was 5, and the amount 32·8°. There was great atmospheric disturbance during the week; this abnormal condition has now lasted 4 weeks. The mean temperature of the week was 0·6° below the average of the last twelve years. The highest temperature occurred at the Royal Infirmary, and the lowest at Ollerenshaw. The degree of humidity was the least at the Royal Infirmary, and the greatest at Thelwall; Old Trafford coming next to the Royal Infirmary.

Ozone occurred upon 3 days at Old Trafford, 7 days at Ollerenshaw, and 6 at Thelwall.

The fall of rain for the month of February has been as follows:—

	Ins.
Old Trafford	2·532
Sale	2·120
Bowdon	2·300
Thelwall	2·711
Ollerenshaw	2·390

The apparent discrepancies in the rain fall for the past week is owing to differences in the times of registration, but particulars of the heavy fall from 2nd to 4th March shall be given next week.

Old Trafford, Manchester,
March 5th, 1861.

G. V. VERNON, F.R.A.S.

MANCHESTER AND

New Cases of Disease coming under Treatment in P

During the Wee

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital
Small-pox	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	2	..
Measles	..	..	..	..	..	..	..	..	..	2	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	.	..	1	1	..	..	..	..	..	..	2	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	1	..	1	3	..	6	2	1	..	2	..
Dysentery	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	1	..	..	2	..	6	3
Erysipelas	..	1	..	..	..	1	..	..	..	..	1	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	4	..	..	4	7	..	13	1	6	1	..	..
Constitutional Syphilis	..	..	..	..	2	2	2	..	9	1	..	..	2	1
Phthisis	..	..	..	..	..	..	1	..	11	3	1	2	..	..
Mesenteric Disease	..	1	..	..	1	2	..	..	..	..	..	..	2	..
Disease of Heart	..	1	..	..	..	1	..	1	7	3	2	1	..	..
Insanity	..	..	1	..	..	1	4	..	..	..	..	..	..	..
Bronchitis	2	3	3	..	3	11	14	..	39	5	5	..	10	3
Influenza and Catarrh	..	..	..	3	2	5	8	..	14	2	..	1	9	..
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Pneumonia.....	..	..	..	..	..	..	..	..	..	1	..	..	..	3
Dyspepsia	..	..	..	..	..	..	2	1	37	3	2	..	3	2
Kidney Disease	..	..	..	..	..	..	2	1	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	7	2	..	..	..	1
Carbuncle	..	..	..	..	1	1	..	..	..	..	..	..	..	1
Ophthalmia.....	1	..	..	..	..	1	2	..	1	..	..	..	1	..
Accidents and diseases not classified	4	5	4	6	4	23	51	37	289	5	2	4	31	9
Total.....	7	11	13	10	14	55	97	41	433	30	22	10	74	24

SANITARY ASSOCIATION.

, and Public Institutions of Manchester and adjoining Districts,
, *the 2nd day of March*, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
...1,329.....				....477.....			..646...		508	....	....	.....	Area in Statute Acres.
63,851.				.. 53,470. ..			..35,546..		16180	....	....	.....	Population in 1851.
LAW CTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	2	Chicken-pox
..	..	..	..	..	..	..	..	1	..	..	..	3	Measles
..	..	1	..	..	..	..	..	..	..	..	1	2	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	4	..	..	..	8	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	2	..	1	2	1	..	..	2	..	1	..	25	Diarrhœa
..	..	1	..	..	..	..	..	..	..	..	..	4	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	2	..	..	..	..	..	3	..	20	Continued Fever
..	..	..	..	..	..	..	..	3	1	..	..	7	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	2	3	1	..	..	..	1	2	2	3	..	46	Rheumatism
..	..	..	..	..	..	1	..	..	..	2	1	21	Constitutional Syphilis
..	1	3	..	..	..	..	2	2	..	2	1	29	Phthisis
..	..	2	..	..	..	..	..	..	..	..	..	6	Mesenteric Disease
..	..	4	..	..	..	..	..	..	1	2	..	22	Disease of Heart
..	1	..	..	..	..	..	..	1	..	..	1	8	Insanity
..	2	13	..	..	..	5	2	11	..	21	..	141	Bronchitis
..	2	4	6	4	..	1	..	..	..	4	2	63	Influenza and Catarrh
..	..	..	..	1	..	..	..	..	..	..	..	2	Pleurisy
..	..	..	..	..	..	..	..	..	..	..	1	5	Pneumonia
..	..	5	..	..	..	2	..	3	1	8	..	69	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	..	3	Kidney Disease
..	..	2	1	..	..	..	1	..	..	..	1	15	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	1	3	Carbuncle
..	..	1	..	..	..	..	..	1	..	1	..	8	Ophthalmia
9	83	8	6	5	9	5	17	2	36	..		644	Accidents and diseases not classified
19	122	17	15	6	18	11	47	7	83	9		1157	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	..	1	..	..	..	..	..	..	..	2	2
Scarlatina	..	..	1	..	..	..	..	1	..	..	2	..
Diarrhœa	..	1	..	..	..	..	1	..	1	..	3	5
Fever	1	..	..	..	..	..	1	..	1	1	4	6
Diseases of the Lungs ..	11	11	1	7	..	*6	2	6	9	2	55	56
Other causes.....	12	4	36	5	17	6	17	9	15	9	130	126
TOTAL NO. OF DEATHS.	25	16	39	12	17	12	21	16	26	12	196	195
TOTAL NO. OF BIRTHS.	39	38	23	22	20	38	30	48	55	17	330	292

* 1 Inquest.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.*

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 24th November.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	TOTAL.	DISEASES.	4 Weeks ending 24th November.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	TOTAL.
9	10	4	23	.... Small-pox	7	10	12	29
22	19	11	52	.... Chicken-pox	5	15	1	21
62	54	31	147	..... Measles	27	24	30	81
16	30	21	67	.... Scarlatina	11	5	7	23
....	1	1	2	.... Diphtheria	1	..	5	6
27	49	53	129	.. Whooping-cough ..	11	7	16	34
3	1	1	5	..... Croup	3	..	3	6
198	183	162	543	.....Diarrhœa.. ...	90	98	93	281
9	8	6	23	.... Dysentery	7	10	16	33
....	..	..	..	..... Cholera	....	..	..	....
19	16	24	59	.... Erysipelas	27	24	23	74
1	..	..	1	.. Puerperal Fever ..	1	1	2	4
13	25	10	48	..... Insanity	42	41	35	118
720	1020	1312	3052	Bronchitis and Catarrh	862	1112	1257	3231
15	18	18	51	..... Pleurisy	17	24	8	49
18	26	30	74	... Pneumonia	33	28	34	95
5	3	8	16	.... Carbuncle	8	8	4	20
3320	3475	3067	9862	{ Accidents, and all other Diseases }	2739	3176	2708	8623
4457	4938	4759	14154	..... TOTAL	3891	4583	4254	12728

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, MARCH 9, 1861. [No. 32.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·808	29·818	—	29·819	28·856
Highest (Unreduced)	—	30·261	30·236	—	30·308	29·362
Lowest (Unreduced)	—	29·288	29·354	—	29·328	28·552
Range	—	0·973	0·882	—	0·980	0·810
Temperature.						
Adopted Mean	44·2	44·6	44·5	43·2	43·7	41·0
Range for Week	20·0	26·8	26·3	25·6	25·2	16·9
Daily Range	11·6	14·3	14·3	13·6	12·7	10·9
Maximum in Shade	56·0	58·0	57·8	57·3	56·5	49·0
Minimum in Shade	36·0	31·2	31·5	31·7	31·3	32·1
Maximum in Sun	—	68·2	65·5	71·0	64·0	54·6
Maximum in Sun: Black bulb in Vacuo	—	83·8	—	—	—	—
Minimum on Grass	—	27·0	26·5	27·6	31·0	28·5
Temperature in Ground at surface	—	41·08	42·60	—	—	—
Temperature 6 inches below	—	40·99	41·98	—	—	—
Temperature 12 inches below	—	41·14	42·63	—	—	—
Temperature of Evaporation	41·7	42·1	41·9	—	42·7	39·3
Temperature of Dew Point	38·8	39·2	38·8	—	41·3	37·2
Temperature of Air—Dew Point	5·4	5·4	5·7	—	2·4	3·8
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·72	2·76	2·73	—	3·04	2·56
Required to Saturate do	0·60	0·60	0·62	—	0·23	0·44
Weight of a cubic foot of Air	547·9	547·5	547·9	—	548·8	534·1
Degree of Humidity (Saturation—1,000)	0·827	0·812	0·803	—	0·920	0·864
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·26	3·31	3·26	—	3·60	3·07
Elastic force of Vapour	0·236	0·239	0·236	—	0·260	0·222
Clouds (Covered—10 Clear—0)	—	8·8	6·4	—	5·2	8·0
Prevailing Winds	—	S.W.&W.	NE,SW&NW	NW.&SW.	N.W.&W.	SW&NW.
Rain	—	1·360	0·370	1·010	0·269	1·620
Days on which it fell	—	6	5	5	5	6
Ozonometer.						
Moffat (0—10)	—	2·71	—	—	6·43	7·45
Schonbein (0—10)	—	3·14	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·054	0·056	0·058	—	0·025	0·035
Weekly Evaporation	0·378	0·392	0·406	—	0·175	0·245

There were 7 barometric oscillations during the week, the total amount being 3·121 ins. There were 6 temperature oscillations, the amount being 52·3°. Both these oscillations are exceedingly large, and greatly above the average. The mean temperature of the week was 4·6° above the average of the last twelve years, and warmer than any corresponding week for that period.

The temperature at the three first stations is almost identical; at Bowdon and Thelwall about 1·0° lower, and at Ollerenshaw about 3·5° lower. The mean daily range of temperature was the lowest at Ollerenshaw, and the highest at Old Trafford and Sale.

The amount of relative humidity was the lowest at Sale, and the highest at Thelwall.

Ozone occurred upon 5 days at Old Trafford, and upon 7 at Thelwall and Ollerenshaw.

The fall of rain for the first four days of March was as follows:—

	Ins.
Bowdon	1·170
Old Trafford	1·530
Sale	1·210
Thelwall	1·107
Ollerenshaw	1·740

This is a large fall, varying considerably at places not far distant.

Old Trafford, Manchester,
March 12th, 1861.

G. V. VERNON, F.R.A.S.

MANCHESTER AND

New Cases of Disease coming under Treatment in

During the We

	MANCHESTER.													
Area in Statute Acres	..... Manchester Township 1,645													
Population in 1851	..... " " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childr	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	1 Clinical
Small-pox	..	..	1	..	..	1	*1	..	..	..	..	1	..	.
Chicken-pox	..	..	..	..	..	..	2	..	..	1	..	..	..	.
Measles	..	..	..	..	1	1	1	..	..	2	..	..	..	.
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	..	..	1	1	..	..	1	..	..	..	2	.
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	..	..	1	1	1	3	3	..	1	2	..	..	1	.
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Continued Fever	..	..	1	1	..	2	..	..	1	..	..	..	..	.
Erysipelas	..	..	2	..	..	2	1	1	..	..	2	1	..	.
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Rheumatism	..	2	2	1	..	5	2	3	7	1	2	..	1	.
Constitutional Syphilis	..	..	..	..	..	..	2	..	6	1	..	..	2	1
Phthisis	..	..	..	2	2	4	3	..	28	2	4	1	2	.
Mesenteric Disease	1	1	..	..	1	3	..	..	2	..	..	1	..	.
Disease of Heart	..	3	..	..	..	3	1	..	4	..	..	1	..	.
Insanity	2	..	1	..	..	3	2	..	..	..	..	..	..	.
Bronchitis	2	2	3	3	1	11	16	..	61	6	7	6	8	2
Influenza and Catarrh	..	2	..	7	1	10	7	..	6	2	1	..	4	1
Pleurisy	..	1	..	..	..	1	1	..	..	..	..	..	..	.
Pneumonia.....	..	..	..	..	..	..	..	..	..	..	1	1	..	.
Dyspepsia	1	..	..	..	..	1	..	1	23	4	..	..	2	.
Kidney Disease	..	1	..	..	..	1	2	..	1	..	1	..	..	.
Neuralgic Affections	..	..	..	..	..	..	1	..	3	..	..	2	..	2
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Ophthalmia.....	..	..	..	..	..	..	2	..	..	..	..	..	..	.
Accidents and diseases not classified	2	3	4	4	8	21	45	33	214	2	5	7	32	9
Total.....	8	15	15	19	16	73	92	38	358	23	23	21	54	19

* Said to have been vaccinated three times without effect.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
the 9th day of March, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329			477			646		508				Area in Statute Acres.
63,851			53,470			35,546		16180				Population in 1851.
Public Institutions.			Poor Law Districts.									
16 Workhouse.	17 Dispensary.	18 New Bailey	19 St. George's.	20 Medlock.	21 St. Philip's	22 Poor Law District.	23 Dispensary.	24 Poor Law District.	25 Ardwick & Anccats Dispensary.	26 Chorlton Union Workhouse.	27 Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	3	Small-pox
..	1	..	..	..	..	..	..	..	..	..	4	Chicken-pox
..	..	..	..	..	..	..	2	..	..	..	6	Measles
..	..	..	..	..	..	..	..	..	..	2	2	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	1	..	1	3	..	4	..	..	..	13	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	3	1	2	..	..	2	..	2	1	24	Diarrhœa
..	..	..	1	..	1	1	..	..	..	..	4	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	..	..	..	1	1	..	6	Continued Fever
..	..	..	..	..	..	..	3	..	1	1	12	Erysipelas
1	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever
2	2	3	..	1	..	2	2	..	4	..	37	Rheumatism
..	1	..	..	..	..	..	..	..	..	1	16	Constitutional Syphilis
..	5	..	..	..	..	1	3	..	6	1	60	Phthisis
..	1	..	..	..	..	..	..	..	3	..	10	Mesenteric Disease
..	..	..	..	..	..	1	..	..	..	..	10	Disease of Heart
..	..	..	..	..	..	..	..	..	..	1	6	Insanity
1	14	..	..	..	..	..	9	..	12	1	156	Bronchitis
3	5	3	1	3	..	3	4	..	..	..	57	Influenza and Catarrh
..	1	..	2	..	..	..	..	1	..	..	6	Pleurisy
..	1	..	..	..	..	..	..	..	1	..	4	Pneumonia
..	9	..	..	2	..	..	3	..	5	1	52	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	4	Kidney Disease
..	..	..	..	..	..	..	..	..	..	..	8	Neuralgic Affections
1	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
..	1	..	..	..	..	..	2	..	..	..	5	Ophthalmia
4	67	10	..	2	..	6	11	4	43	..	523	Accidents and diseases not classified
12	108	20	5	11	4	14	45	6	78	9	1030	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) " EVAN THOMAS,
(6) " J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD,
(10) Mr. J. S. DAVIES,
(11) " W. J. MALLETT,
(12) " H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) " J. TEALE,
(16) " M. O. LARMUTH,
(17) " T. F. BROWNBILL
(18) Mr. J. O. BRADBURY,
(19) " W. B. STOTT,
(20) " T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) " E. HALLEY,
(25) " J. M. KIRKMAN.
(26) " N. PICKFORD,
(27) " GEO. GREAVES.

‖ Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	1	..	..	..	..	1	..
Measles	1	..	..	..	..	..	..	..	..	..	1	2
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1
Diarrhœa	2	..	1	..	1	..	1	..	..	2	7	5
Fever	2	2	..	1	1	2	..	..	1	..	9	5
Diseases of the Lungs	9	11	..	2	4	*6	3	5	12	1	53	56
Other causes	12	10	23	6	6	8	12	11	14	4	106	132
TOTAL NO. OF DEATHS.	26	23	24	9	12	17	16	16	27	7	177	201
TOTAL NO. OF BIRTHS.	51	42	25	22	26	35	34	21	61	23	340	302

* 1 Inquest.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th December.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	TOTAL.	DISEASES.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	TOTAL.
10	4	2	16	.... Small-pox	10	12	9	31
19	11	6	36	.... Chicken-pox	15	1	2	18
54	31	9	94	..... Measles	24	30	21	75
30	21	13	64	.... Scarlatina	5	7	11	23
1	1	3	5	.... Diphtheria	..	5	3	8
49	53	67	169	.. Whooping-cough ..	7	16	41	64
1	1	3	5	..... Croup	..	3	4	7
183	162	197	542	.....Diarrhœa.. ...	98	93	91	282
8	6	5	19	.... Dysentery	10	16	18	44
..	..	....	..	..... Cholera	..	..	....	....
16	24	18	58	.... Erysipelas	24	23	45	92
..	..	....	..	.. Puerperal Fever ..	1	2	2	5
25	10	16	51	..... Insanity	41	35	38	114
1020	1312	1062	3394	Bronchitis and Catarrh	1112	1257	974	3343
18	18	14	50	..... Pleurisy	24	8	13	50
26	30	22	78	.. Pneumonia	28	34	23	85
3	8	6	17	.... Carbuncle	8	4	9	21
3475	3067	3468	10010	Accidents, and all other Diseases	3176	2708	2896	8780
4938	4759	4911	14608	..... TOTAL	4583	4254	4205	13042

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WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, MARCH 16, 1861. [No. 33.

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	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·660	29·679	—	29·684	28·779
Highest } Unreduced	—	30·130	30·112	—	30·138	29·264
Lowest } Unreduced	—	29·143	29·186	—	29·160	28·288
Range	—	0·987	0·926	—	0·978	0·976
Temperature.						
Adopted Mean	41·4	41·8	40·9	39·9	41·1	39·0
Range for Week	17·0	25·0	26·1	23·6	22·0	19·4
Daily Range	9·7	14·8	15·0	13·3	11·6	11·1
Maximum in Shade	51·0	54·0	53·8	51·8	52·0	49·5
Minimum in Shade	34·0	29·0	26·7	28·2	30·0	30·1
Maximum in Sun	—	71·2	63·5	70·2	61·0	59·0
Maximum in Sun: Black bulb in Vacuo	—	81·5	—	—	—	—
Minimum on Grass	—	24·8	21·5	24·9	28·0	26·0
Temperature in Ground at surface	—	38·99	38·57	—	—	—
Temperature 6 inches below	—	39·37	40·58	—	—	(a) 38·96
Temperature 12 inches below	—	40·68	41·98	—	—	(b) 39·44
Temperature of Evaporation	39·7	39·9	39·0	—	40·2	37·6
Temperature of Dew Point	37·6	37·5	36·6	—	39·0	35·9
Temperature of Air—Dew Point	3·8	4·3	4·3	—	2·1	3·1
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·60	2·60	2·51	—	2·75	2·42
Required to Saturate do	0·44	0·52	0·48	—	0·26	0·38
Weight of a cubic foot of Air	548·9	548·2	549·4	—	549·1	534·7
Degree of Humidity (Saturation—1,000)	0·872	0·864	0·848	—	0·929	0·888
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·11	3·11	3·00	—	3·29	3·11
Elastic force of Vapour	0·225	0·225	0·217	—	0·238	0·225
Clouds (Covered—10 Clear—0)	—	6·2	6·4	—	5·8	5·7
Prevailing Winds	—	W.&N.W.	N.W.	NW.&SW.	N.W.	N.W.&N.
Rain	—	0·600	0·720	0·540	0·859	0·895
Days on which it fell	—	4	5	6	6	5
Ozonometer.						
Moffat (0—10)	—	2·00	—	—	5·78	6·15
Schonbein (0—10)	—	2·43	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·036	0·040	0·039	—	0·020	0·013
Weekly Evaporation	0·252	0·280	0·273	—	0·140	0·091

(a) Thermometer 3 feet deep. *(b)* Thermometer 4 feet deep.

There were 8 barometric oscillations during the week, the amount being 2·723 inches, and 6 temperature oscillations, the amount being 33·7°. The barometric oscillations are still very great for the period of the year. The mean temperature was 0·6° above the average of the last twelve years. Snow fell upon the 11th, and hail upon the 11th and 16th. The mean temperature was the highest at Old Trafford, and the lowest at Thelwall. The range of temperature was the greatest at Sale, and the lowest at the Royal Infirmary. The humidity was the least at Sale, and the greatest at Thelwall. The amount of rain was the least at Bowdon, and the greatest at Ollerenshaw.

Ozone occurred upon 4 days at Old Trafford, and upon 7 each at Thelwall and Ollerenshaw.

The character of the weather during the week has been stormy and uncongenial.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
March 19th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in P

During the Wee

	MANCHESTER.													
Area in Statute Acres	.....Manchester Township 1,645.....													
Population in 1851	..... " " 198,162.....													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childri	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical
Small-pox	..	..	..	..	..	..	..	1	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Measles	..	..	..	..	..	..	..	..	..	2	..	..	..	.
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	.	..	..	..	..	..	..	4	..	..	3	.
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	..	..	3	..	1	4	3	..	..	3	1	..	4	.
Dysentery	..	..	..	..	..	..	..	..	1	..	..	..	..	.
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Continued Fever	..	1	..	..	..	1	..	..	..	..	..	..	3	.
Erysipelas	..	..	..	..	..	..	1	..	..	2	..	..	..	.
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Rheumatism	..	1	..	..	3	4	5	2	20	2	3	1	1	.
Constitutional Syphilis	..	..	..	..	..	..	3	..	15	1	..	..	3	
Phthisis	..	1	1	..	..	2	2	1	33	4	..	..	1	.
Mesenteric Disease	..	..	..	..	1	1	..	..	1	..	..	..	..	.
Disease of Heart	..	..	..	..	..	..	1	..	11	3	1	1	..	.
Insanity	..	2	..	..	..	2	5	..	..	..	..	..	..	.
Bronchitis	1	4	2	..	2	9	13	2	64	5	2	5	6	.
Influenza and Catarrh	..	1	..	2	4	7	1	..	8	4	..	..	1	.
Pleurisy	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Pneumonia.....	..	..	..	..	..	..	..	..	..	1	..	1	..	.
Dyspepsia	..	..	..	1	1	2	1	..	39	7	..	..	2	..
Kidney Disease	..	..	..	..	..	..	..	1	4	..	1	2	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	5	..	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	..	..	..	..	1	1	1	..	2	..	..	..	2	1
Accidents and diseases not classified	3	11	5	7	8	34	51	*24	196	..	3	7	28	15
Total.....	4	21	11	10	21	67	88	31	399	38	11	17	54	23

* One case of Opium Poisoning, fatal.

‖ Return not received or received too late for publication.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
the 16th day of March, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329			477			646		508				Area in Statute Acres.
63,851			53,470			35,546		16180				Population in 1851.
Public Institutions.			Poor Law Districts.									
17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Midlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	1	..	..	..	..	..	..	..	..	..	1	Chicken-pox
..	..	..	..	..	..	..	..	..	..	..	2	Measles
..	..	..	..	..	1	..	..	..	..	1	2	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	3	..	..	1	2	..	2	..	..	..	15	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
2	3	3	1	1	..	..	1	..	..	1	31	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	1	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	3	2	..	..	..	..	2	..	11	Continued Fever
..	1	1	..	..	..	..	3	..	..	..	8	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	3	1	..	1	..	2	3	..	3	2	54	Rheumatism
..	..	..	1	..	..	..	1	..	..	..	26	Constitutional Syphilis
..	5	..	..	2	..	3	1	..	2	1	57	Phthisis
..	..	..	..	..	..	..	..	2	..	1	5	Mesenteric Disease
..	2	..	..	..	..	..	..	..	..	1	20	Disease of Heart
1	..	..	..	..	..	1	..	..	1	2	12	Insanity
3	16	2	..	..	3	2	12	..	11	..	162	Bronchitis
..	7	4	1	2	2	..	4	..	1	1	43	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	..	..	1	Pleurisy
..	1	..	..	..	1	..	2	..	..	..	8	Pneumonia
..	8	..	..	..	4	..	3	..	2	1	69	Dyspepsia
..	..	..	1	..	..	..	..	..	..	..	9	Kidney Disease
..	1	..	..	..	..	..	1	1	..	..	8	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
..	..	..	..	..	..	..	1	..	..	1	9	Ophthalmia
9	81	8	..	6	5	8	30	1	27	..	541	Accidents and diseases not classified
15	132	19	7	15	†18	16	64	4	49	12	1096	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) " EVAN THOMAS,
(6) " J. BROADBENT,

(7) Mr. M. ROWLAND DAY,
(8) (9) (10) (11) (12) Dr. JOHN MEDD, Mr. J. S. DAVIES, " W. J. MALLETT, " H. RUNCORN,

(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
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(22) Mr. H. M. WILLIAMSON.

(23) Mr. W. B. MIDWOOD,
(24) " E. HALLEY,
(25) " J. M. KIRKMAN.
(26) " N. PICKFORD,
(27) " GEO. GREAVES.

† The following cases were omitted in last week's Return for St. Philip's District, Bronchitis, 3; Influenza and Catarrh, 2; Dyspepsia. 1; Not classified 9. Total 15.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowci.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	1
Measles	..	..	1	..	..	..	..	..	..	..	1	2
Scarlatina	..	1	..	..	..	..	..	..	..	..	1	..
Diarrhœa	1	..	1	..	..	2	..	..	1	..	5	6
Fever	1	1	..	1	..	..	1	..	..	..	4	5
Diseases of the Lungs	14	6	..	6	7	5	1	13	13	4	69	54
Other causes	8	*11	28	7	4	†8	19	8	12	9	114	135
TOTAL NO. OF DEATHS.	24	19	30	14	11	15	21	21	26	13	194	203
TOTAL NO. OF BIRTHS.	39	26	20	24	19	33	25	26	51	16	279	321

* 7 Inquests. † 2 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th December.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	TOTAL.	DISEASES.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	TOTAL.
10	4	2	16	.... Small-pox	10	12	9	31
19	11	6	36	.... Chicken-pox	15	1	2	18
54	31	9	94	..... Measles	24	30	21	75
30	21	13	64	.... Scarlatina	5	7	11	23
1	1	3	5	.... Diphtheria	..	5	3	8
49	53	67	169	.. Whooping-cough ..	7	16	41	64
1	1	3	5	..... Croup	..	3	4	7
183	162	197	542	.....Diarrhœa.. ...	98	93	91	282
8	6	5	19	.... Dysentery	10	16	18	44
..	..	....	..	..... Cholera	..	..	....	....
16	24	18	58	.... Erysipelas	24	23	45	92
..	..	....	..	.. Puerperal Fever ..	1	2	2	5
25	10	16	51	..... Insanity	41	35	38	114
1020	1312	1062	3394	Bronchitis and Catarrh	1112	1257	974	3343
18	18	14	50	..... Pleurisy	24	8	13	50
26	30	22	78	... Pneumonia	28	34	23	85
3	8	6	17	.... Carbuncle	8	4	9	21
3475	3067	3468	10010	Accidents, and all other Diseases	3176	2708	2896	8780
4938	4759	4911	14608	..... TOTAL	4583	4254	4205	13042

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, MARCH 23, 1861. [No. 34.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·296	29·318	—	29·303	28·431
Highest (Unreduced)	—	29·685	29·722	—	29·712	28·810
Lowest (Unreduced)	—	28·787	28·842	—	28·808	27·942
Range	—	0·898	0·880	—	0·904	0·868
Temperature.						
Adopted Mean	41·8	42·0	42·0	39·6	41·7	38·4
Range for Week	21·0	25·8	25·2	20·4	21·8	18·3
Daily Range	9·8	12·0	12·2	9·9	11·2	9·5
Maximum in Shade	55·0	57·0	56·5	49·4	53·8	48·5
Minimum in Shade	34·0	31·2	31·3	29·0	32·0	30·2
Maximum in Sun	—	68·0	63·0	68·0	58·5	57·5
Maximum in Sun: Black bulb in Vacuo	—	80·5	—	—	—	—
Minimum on Grass	—	28·2	28·0	25·0	30·0	28·7
Temperature in Ground at surface	—	38·82	39·51	—	—	—
Temperature 6 inches below	—	38·84	39·68	—	—	(a) 38·11
Temperature 12 inches below	—	39·94	41·30	—	—	(b) 38·64
Temperature of Evaporation	39·5	39·6	39·4	—	41·1	37·1
Temperature of Dew Point	36·6	36·6	36·2	—	40·4	35·3
Temperature of Air—Dew Point	5·2	5·4	5·8	—	1·3	3·1
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·52	2·52	2·36	—	2·96	2·39
Required to Saturate do	0·56	0·58	0·78	—	0·11	0·35
Weight of a cubic foot of Air	541·2	541·1	541·1	—	541·4	528·7
Degree of Humidity (Saturation—1,000)	0·828	0·822	0·808	—	0·952	0·870
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·00	3·00	2·96	—	3·47	2·85
Elastic force of Vapour	0·217	0·217	0·214	—	0·251	0·206
Clouds (Covered—10 Clear—0)	—	7·5	7·4	—	7·5	6·6
Prevailing Winds	—	N W.&SW	NW.&SW	W. & SW.	NW.&SW	N.W.
Rain	—	1·052	0·920	1·050	1·064	1·955
Days on which it fell	—	7	6	6	6	7
Ozonometer.						
Moffat (0—10)	—	4·84	—	—	7·28	7·25
Schonbein (0—10)	—	4·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·048	0·050	0·053	—	0·013	0·026
Weekly Evaporation	0·336	0·350	0·371	—	0·091	0·182

(a) Thermometer 3 feet deep. *(b)* Thermometer 4 feet deep.

There were 8 barometric oscillations during the week, the amount being 2·772 inches; this is again a very large amount for March. There were 4 temperature oscillations, the amount being 25·4°.

The mean temperature of the week was 0·2° below the average of the last twelve years.

There was thunder at 3 30 p.m. upon the 17th. Hail fell upon the 21st, and snow upon the 20th and 21st. The mean temperature was pretty uniform at most of the stations, being the lowest at Ollerenshaw, the most elevated station. The range of temperature was the greatest at Old Trafford, and the least at Ollerenshaw. The daily range was the highest at Sale, and the least at Ollerenshaw. The least degree of humidity occurred at Sale, and the highest at Thelwall. There was a very large fall of rain during the week, especially at Ollerenshaw.

Ozone occurred upon 7 days at all the stations at which observations are given.

During the first 5 days of the week the weather was very unsettled and stormy.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
March 26th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in

During the Wee

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childr	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	1 Clinical
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	1	..	..	..	..	.
Measles	..	2	..	..	..	2	..	..	..	..	..	..	..	.
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	1	
Croup	..	..	..	..	..	..	..	..	..	1	..	..	1	.
Diarrhœa	1	1	..	1	..	3	3	..	2	..	..	..	..	.
Dysentery	..	..	..	1	..	1	..	..	1	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	1	1	..	..	2	1	..	..	..	..	..	4	..
Erysipelas	..	..	..	..	..	..	..	..	1	..	1	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	..	..	..	..	1	3	8	..	1	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	2	1	3	..	1	..	3	2
Phthisis	..	..	3	..	1	4	1	..	2	5	1	4	..	..
Mesenteric Disease	..	..	..	..	..	..	2	..	1	..	..	..	1	..
Disease of Heart	..	..	..	..	..	..	1	..	10	2	2	3	..	..
Insanity	..	..	1	..	1	2	1	..	..	..	..	..	..	..
Bronchitis	1	1	1	..	..	3	14	..	46	4	8	5	2	5
Influenza and Catarrh	..	1	..	6	..	7	4	..	5	..	..	2	2	..
Pleurisy	..	..	..	..	..	..	1	1	..	..	..	..	..	..
Pneumonia	..	..	..	..	1	1	..	..	..	2	..	1	..	3
Dyspepsia	..	1	..	..	..	1	..	..	29	1	..	2	7	1
Kidney Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Neuralgic Affections	1	..	..	..	..	1	..	1	4	1	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..	..	3
Accidents and diseases not classified	3	4	4	4	8	23	50	42	219	7	9	7	33	8
Total	6	11	10	12	11	50	81	48	332	23	23	24	54	28

‖ Return not received or received too late for publication.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
he 23rd day of March, 1861.

LFORD.			HULME.			CHORL-TON.		ARD-WICK				
1,329.			.... 477.			.. 646.		508.	....	....	.....	Area in Statute Acres.
63,851.			.. 53,470.			.. 35,546		16180	....	....	.....	Population in 1851.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Anccats Dispensary. 26	Chorlton Union Work-house. 27	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	1	..	..	..	2	Chicken-pox
..	..	..	..	..	..	..	..	..	..	..	2	Measles
..	..	..	..	..	1	..	..	..	..	..	1	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	1	..	..	..	6	..	2	..	..	..	11	Whooping-cough
..	..	..	..	..	..	..	1	..	..	..	3	Croup
1	1	2	1	1	..	..	..	..	2	1	23	Diarrhœa
..	2	..	..	..	..	..	..	..	..	1	5	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	2	..	..	1	..	..	..	..	4	..	17	Continued Fever
..	..	..	..	..	..	..	1	..	..	..	3	Erysipelas
1	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever
2	9	..	..	2	2	1	..	..	3	2	35	Rheumatism
..	..	..	..	..	..	..	..	..	..	1	13	Constitutional Syphilis
..	7	..	..	..	..	..	2	1	6	1	34	Phthisis
..	3	..	..	..	..	..	1	..	2	1	11	Mesenteric Disease
1	4	..	..	..	..	..	..	..	..	..	23	Disease of Heart
1	..	..	..	..	..	..	..	..	..	1	5	Insanity
..	23	..	..	2	5	3	8	..	11	..	143	Bronchitis
8	15	5	..	1	4	..	3	..	3	..	61	Influenza and Catarrh
..	..	..	..	..	..	..	..	1	..	..	3	Pleurisy
..	..	..	..	..	..	..	..	..	..	1	8	Pneumonia
1	10	..	..	..	3	1	4	..	1	1	62	Dyspepsia
..	1	1	..	..	..	..	..	..	..	..	2	Kidney Disease
..	3	1	..	..	..	..	..	..	..	..	12	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
..	..	..	..	..	..	..	2	..	..	1	6	Ophthalmia
4	60	10	2	5	6	5	17	2	37	..	552	Accidents and diseases not classified
19	141	19	3	12	27	10	42	4	69	11	1038	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
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(27) " GEO. GREAVES.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	1
Measles	..	1	..	..	..	..	..	..	..	..	1	1
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1
Diarrhœa	..	..	1	..	..	..	..	..	2	..	3	5
Fever	2	..	1	..	..	1	..	..	..	1	5	6
Diseases of the Lungs	13	7	..	8	7	5	2	4	11	5	62	58
Other causes	12	16	23	14	3	10	12	3	18	..	111	130
TOTAL NO. OF DEATHS.	27	24	25	22	10	16	14	7	31	6	182	202
TOTAL NO. OF BIRTHS.	51	34	14	20	19	46	33	26	49	18	310	307

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th December.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	TOTAL.	DISEASES.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	TOTAL.
10	4	2	16	.... Small-pox	10	12	9	31
19	11	6	36	.... Chicken-pox	15	1	2	18
54	31	9	94	..... Measles	24	30	21	75
30	21	13	64	.... Scarlatina	5	7	11	23
1	1	3	5	.... Diphtheria	..	5	3	8
49	53	67	169	.. Whooping-cough ..	7	16	41	64
1	1	3	5	..... Croup	..	3	4	7
183	162	197	542	.....Diarrhœa.. ...	98	93	91	282
8	6	5	19	.... Dysentery	10	16	18	44
..	..	....	..	..... Cholera	..	..	....	....
16	24	18	58	.... Erysipelas	24	23	45	92
..	..	....	..	.. Puerperal Fever ..	1	2	2	5
25	10	16	51	..... Insanity	41	35	38	114
1020	1312	1062	3394	Bronchitis and Catarrh	1112	1257	974	3343
18	18	14	50	..... Pleurisy	24	8	13	50
26	30	22	78	... Pneumonia	28	34	23	85
3	8	6	17	.... Carbuncle	8	4	9	21
3475	3067	3468	10010	Accidents, and all other Diseases	3176	2708	2896	8780
4938	4759	4911	14608	..... TOTAL	4583	4254	4205	13042

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, MARCH 30, 1861. [No. 35.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·513	29·531	—	29·525	28·660
Highest } Unreduced	—	29·923	29·916	—	29·940	29·051
Lowest } Unreduced	—	29·334	29·376	—	29·354	28·520
Range	—	0·589	0·540	—	0·586	0·531
Temperature.						
Adopted Mean	43·6	44·0	43·7	43·5	43·1	42·3
Range for Week	18·0	27·0	32·3	26·5	22·2	27·5
Daily Range	9·3	15·1	15·8	14·7	11·3	12·9
Maximum in Shade	53·0	57·7	58·5	57·0	54·0	59·5
Minimum in Shade	35·0	30·7	26·2	30·5	31·8	32·0
Maximum in Sun	—	77·0	65·3	75·8	66·2	69·0
Maximum in Sun: Black bulb in Vacuo	—	93·4	—	—	—	—
Minimum on Grass	—	27·0	23·2	27·7	29·5	28·0
Temperature in Ground at surface	—	41·67	42·18	—	—	—
Temperature 6 inches below	—	42·04	43·83	—	—	40·28
Temperature 12 inches below	—	43·01	44·13	—	—	40·38
Temperature of Evaporation	41·3	42·5	41·9	—	42·0	41·2
Temperature of Dew Point	38·6	40·7	39·8	—	40·7	39·9
Temperature of Air—Dew Point	5·0	3·3	3·9	—	2·4	2·4
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·70	2·90	2·81	—	2·89	2·83
Required to Saturate do	0·56	0·40	0·46	—	0·32	0·30
Weight of a cubic foot of Air	543·3	542·7	543·3	—	544·1	528·7
Degree of Humidity (Saturation—1,000)	0·822	0·880	0·863	—	0·912	0·912
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·24	3·51	3·39	—	3·69	3·58
Elastic force of Vapour	0·234	0·254	0·245	—	0·267	0·259
Clouds (Covered—10 Clear—0)	—	8·5	5·9	—	7·8	8·3
Prevailing Winds	—	SE. & SW.	S.W.	S.	S.W.	Variable.
Rain	—	0·847	0·700	0·630	0·560	1·090
Days on which it fell	—	5	4	5	5	5
Ozonometer.						
Moffat (0—10)	—	1·43	—	—	4·14	4·60
Schonbein (0—10)	—	1·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·050	0·034	0·040	—	0·011	0·011
Weekly Evaporation	0·350	0·238	0·280	—	0·077	0·077

There were 5 barometric oscillations during the week, the amount being 1,425 inches; this is much less than that of many weeks past. There were 3 temperature oscillations, the amount being 30·4°.

The mean temperature of the week was 2·3° above the mean of the last twelve years.

The mean temperature was the highest at Old Trafford, and the lowest at Ollerenshaw; at the remaining stations it was nearly uniform. The least ranges of temperature occurred at the Royal Infirmary, and the largest at Sale. The least amount of moisture occurred at the Royal Infirmary, and the largest at Ollerensham and Thelwall. The fall of rain was the largest at Ollerenshaw, and the least at Thelwall.

Ozone occurred upon 2 days at Old Trafford, and at 7 each at Thelwall and Ollerenshaw.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
April 2nd, 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week e

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1851	" " 198,162														
	Poor Law Districts.						Public Institutions.								
								Royal Infirmary.					Children		
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.	1
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough	..	..	..	..	1	1	..	..	..	..	..	..	1	1	
Croup	..	..	..	..	1	1	..	..	..	..	..	..	..	..	
Diarrhœa	1	..	..	..	1	2	1	..	1	..	..	..	..	1	
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Continued Fever	1	..	..	1	..	2	..	1	..	..	..	3	2	..	
Erysipelas	..	..	..	..	..	..	..	1	1	..	..	1	..	..	
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatism	..	2	1	..	..	3	5	2	10	..	1	2	..	..	
Constitutional Syphilis	..	..	..	..	..	..	..	1	2	..	..	..	..	..	
Phthisis	..	[illegible]	1	..	2	4	6	[illegible]	16	5	5	5	2	..	
Mesenteric Disease	..	..	..	1	..	1	..	..	1	..	..	..	2	..	
Disease of Heart	..	..	..	..	..	..	1	..	4	2	2	2	..	..	
Insanity	..	..	..	1	..	1	5	..	..	..	..	..	..	..	
Bronchitis	..	..	2	1	..	3	14	..	36	6	2	2	8	2	
Influenza and Catarrh	..	..	..	1	1	2	4	..	5	1	..	2	3	..	
Pleurisy	..	..	1	..	..	1	1	..	1	..	..	..	..	..	
Pneumonia	..	..	..	..	..	..	1	..	..	2	..	..	2	2	
Dyspepsia	..	..	..	..	..	..	2	..	18	4	1	1	1	2	
Kidney Disease	..	1	..	..	..	1	..	..	..	..	..	..	..	..	
Neuralgic Affections	..	..	..	..	..	..	..	..	6	2	..	2	..	3	
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Ophthalmia	..	..	..	..	..	..	..	..	1	..	..	..	4	5	
Accidents and diseases not classified	3	6	3	5	7	24	36	31	160	3	6	13	27	4	
Total	5	10	8	10	13	46	76	37	262	25	17	33	52	22	

‖ Return not received or received too late for publication.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
the 30th day of March, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329			477			646		508				Area in Statute Acres.
63,851			53,470			35,546		16180				Population in 1851.
	Public Institutions.		Poor Law Districts.									
17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Anccats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	1	1	Chicken-pox
..	1	..	..	..	..	..	..	..	..	1	3	Measles
..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	2	..	..	..	1	..	2	..	..	..	8	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	1	Croup
1	2	3	..	..	..	..	..	..	2	1	16	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	..	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	2	..	..	..	..	..	..	..	4	..	15	Continued Fever
1	2	..	..	..	..	..	1	..	..	1	8	Erysipelas
..	..	..	..	1	..	..	..	..	..	..	1	Puerperal Fever
2	7	..	1	1	1	1	1	..	3	1	41	Rheumatism
..	..	..	..	..	1	..	..	..	1	..	6	Constitutional Syphilis
1	5	..	1	..	..	..	2	..	7	1	62	Phthisis
..	1	..	..	1	..	1	..	..	2	1	10	Mesenteric Disease
1	4	1	..	..	..	..	..	..	..	..	17	Disease of Heart
2	..	..	..	..	..	..	..	..	..	1	9	Insanity
3	15	..	..	..	..	..	5	1	12	..	109	Bronchitis
1	9	7	..	..	7	1	2	1	4	1	52	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	1	..	4	Pleurisy
1	1	..	..	..	..	..	..	..	1	..	10	Pneumonia
..	7	..	..	..	..	1	..	..	2	..	40	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	1	Kidney Disease
..	1	..	..	..	..	..	..	..	..	1	15	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
..	..	..	..	..	..	..	..	..	..	1	11	Ophthalmia
4	48	7	..	3	6	4	13	2	42	..	440	Accidents and diseases not classified
17	107	18	2	6	16	8	26	4	81	11	881	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,

(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD, Mr. J. S. DAVIES,
(10) (11) ,, W. J. MALLETT,
(12) ,, H. RUNCORN,

(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) ,, J. TEALE,
(16) ,, M. O. LARMUTH,
(17) ,, T. F. BROWNBILL

(18) Mr. J. O. BRADBURY,
(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr, H. M. WILLIAMSON.

(23) Mr. W. B. MIDWOOD,
(24) ,, E. HALLEY,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, GEO. GREAVES.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	..	..	..	..	..	..	..	..	..	1	1
Scarlatina	..	..	..	..	..	..	..	1	..	..	1	1
Diarrhœa	1	1	..	1	..	..	2	..	1	..	6	4
Fever	..	..	..	1	..	..	..	..	..	..	1	6
Diseases of the Lungs	10	7	1	5	3	6	7	6	15	4	64	60
Other causes	16	7	24	14	9	9	14	13	25*	7	138	115
TOTAL NO. OF DEATHS.	28	15	25	21	12	15	23	20	41	11	211	187
TOTAL NO. OF BIRTHS.	40	30	22	20	23	45	21	20	45	14	280	315

* 14 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th December.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	TOTAL.	DISEASES.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	TOTAL.
10	4	2	16	.... Small-pox	10	12	9	31
19	11	6	36	.... Chicken-pox	15	1	2	18
54	31	9	94	..... Measles	24	30	21	75
30	21	13	64	.... Scarlatina ...	5	7	11	23
1	1	3	5	.... Diphtheria	..	5	3	8
49	53	67	169	.. Whooping-cough ..	7	16	41	64
1	1	3	5	..... Croup	..	3	4	7
183	162	197	542	.....Diarrhœa.. ...	98	93	91	282
8	6	5	19	.... Dysentery	10	16	18	44
..	..	....	..	..... Cholera	..	..	....	....
16	24	18	58	.... Erysipelas	24	23	45	92
..	..	....	..	.. Puerperal Fever ..	1	2	2	5
25	10	16	51	..... Insanity	41	35	38	114
1020	1312	1062	3394	Bronchitis and Catarrh	1112	1257	974	3343
18	18	14	50	..... Pleurisy	24	8	13	50
26	30	22	78	.. Pneumonia	28	34	23	85
3	8	6	17	.... Carbuncle	8	4	9	21
3475	3067	3468	10010	Accidents, and all other Diseases	3176	2708	2896	8780
4938	4759	4911	14608	..... TOTAL	4583	4254	4205	13042

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WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, APRIL 6, 1861. [No. 36.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·710	29·723	—	29·729	28·825
Highest } Unreduced	—	30·172	30·160	—	30·186	29·210
Lowest } Unreduced	—	29·588	29·614	—	29·605	28·732
Range	—	0·584	0·546	—	0·581	0·478
Temperature.						
Adopted Mean	42·1	42·9	42·2	41·2	41·6	40·2
Range for Week	14·0	21·8	25·6	21·6	22·4	17·5
Daily Range	9·5	13·1	15·0	12·6	12·1	11·4
Maximum in Shade	52·0	54·5	55·8	54·2	55·6	51·0
Minimum in Shade	38·0	32·7	30·2	32·6	33·2	33·5
Maximum in Sun	—	76·2	69·2	69·3	67·4	63·0
Maximum in Sun: Black bulb in Vacuo	—	84·3	—	—	—	—
Minimum on Grass	—	28·0	25·0	28·2	30·0	28·0
Temperature in Ground at surface	—	40·58	41·27	—	—	—
Temperature 6 inches below	—	40·85	41·48	—	—	(a) 40·80
Temperature 12 inches below	—	42·18	43·44	—	—	(b) 40·93
Temperature of Evaporation	40·3	40·8	40·2	—	39·8	38·7
Temperature of Dew Point	38·1	38·3	37·7	—	37·5	36·8
Temperature of Air—Dew Point	4·0	4·6	4·5	—	4·1	3·4
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·65	2·67	2·62	—	2·60	2·52
Required to Saturate do	0·58	0·52	0·50	—	0·46	0·40
Weight of a cubic foot of Air	548·6	547·6	548·7	—	549·5	534·3
Degree of Humidity (Saturation—1,000)	0·864	0·843	0·850	—	0·868	0·882
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·18	3·19	3·13	—	3·11	3·01
Elastic force of Vapour	0·230	0·231	0·226	—	0·225	0·218
Clouds (Covered—10 Clear—0)	—	7·6	7·1	—	6·5	8·0
Prevailing Winds	—	N.E.	NE. & SW.	N.E.	E.	E & Vrble.
Rain	—	1·923	1·800	1·730	1·674	1·690
Days on which it fell	—	5	5	4	4	6
Ozonometer.						
Moffat (0—10)	—	0·00	—	—	2·15	5·00
Schonbein (0—10)	—	0·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·038	0·045	0·042	—	0·042	0·031
Weekly Evaporation	0·266	0·315	0·294	—	0·294	0·217

(a) 3 Feet below the ground. *(b)* 4 Feet below the ground.

There were 5 barometric oscillations during the week, the amount being 0·960 inches; this is a considerable falling off as compared with many recent weeks. There were 5 temperature oscillations, the amount being 9·4°. The mean temperature of the week was 2·6° below the average of the corresponding week for twelve years. The mean temperature was the highest at Old Trafford, and the lowest at Ollerenshaw. The ranges of temperature were the highest at Sale, and the lowest at the Royal Infirmary.

The degree of humidity was the highest at Ollerenshaw, and the lowest at Old Trafford.

Ozone occurred upon 7 days each at Ollerenshaw and Thelwall, but no indication was obtained at Old Trafford. The fall of rain for March at the various stations was:—

	Fall in Inches.	Days on which it Fell.
Old Trafford	4·143	25
Sale	4·400	25
Bowdon	4·050	25
Thelwall	4·178	25
Ollerenshaw	5·850	26

The fall being the largest at the highest station.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
April 9th 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	1	..	..	..	4	..	..	2
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	1	..	1	..	..	..	..	..	..	2	..
Croup	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Diarrhœa	..	..	..	..	..	..	1	..	..	..	2	..	2	..
Dysentery	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	2	..	..	2	..	..	..	..	..	..	5	1
Erysipelas	..	..	1	..	..	1	1	..	1	..	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	1	3	1	2	..	7	6	4	13	3	1	2	..	..
Constitutional Syphilis	..	1	..	..	..	1	3	..	9	..	..	1	..	..
Phthisis	..	..	2	..	4	6	5	..	32	1	1	5	1	1
Mesenteric Disease	..	2	..	..	..	2	1	..	..	..	..	..	..	..
Disease of Heart	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Insanity	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Bronchitis	3	1	5	2	1	12	9	1	40	6	4	8	4	2
Influenza and Catarrh	..	3	..	3	2	8	7	..	10	..	..	4	6	1
Pleurisy	..	..	..	..	..	..	1	..	..	..	1	..	..	..
Pneumonia	..	..	..	..	..	..	1	..	..	..	..	..	2	1
Dyspepsia	..	..	1	1	2	4	1	1	22	4	..	1	3	3
Kidney Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	5	..	1	..	..	2
Carbuncle	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	1	..	1	1	..	2	..	..	..	7	..
Accidents and diseases not classified	3	6	3	11	8	31	50	21	234	6	8	11	33	6
Total	7	16	17	21	17	78	93	27	368	20	22	32	65	19

‖ Return not received or received too late for publication.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
, *the 6th day of April*, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
.1,329.....			.... 477.....			.. 646...		508	....	....	.....	Area in Statute Acres.
63,851.			.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
Public Institutions.			Poor Law Districts.									
Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Ancoats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	1	..	..	..	..	..	..	..	1	..	9	Measles
..	2	..	..	..	..	..	..	..	..	..	2	Scarlatina
..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	1	3	1	4	..	..	..	12	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	1	Croup
..	..	2	..	1	1	..	..	..	2	1	14	Diarrhœa
..	3	..	..	..	1	..	..	..	..	..	5	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	3	..	..	1	..	..	..	..	6	..	18	Continued Fever
..	1	..	..	..	1	..	..	..	..	..	5	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
1	6	1	..	..	..	..	1	..	4	2	52	Rheumatism
..	..	..	..	..	1	..	1	..	1	1	18	Constitutional Syphilis
1	5	..	1	..	..	1	2	1	7	1	71	Phthisis
..	..	..	1	..	..	..	..	..	2	1	7	Mesenteric Disease
..	3	..	..	..	..	..	..	..	1	1	7	Disease of Heart
2	..	..	..	..	..	..	..	..	..	..	5	Insanity
1	21	..	..	1	3	2	5	1	17	..	137	Bronchitis
1	14	10	1	..	5	..	2	1	5	1	76	Influenza and Catarrh
..	..	..	1	..	..	..	..	..	1	..	4	Pleurisy
..	3	..	..	..	..	..	..	..	1	..	8	Pneumonia
..	10	..	1	..	5	..	3	1	3	..	62	Dyspepsia
..	2	..	..	..	..	..	..	..	..	..	2	Kidney Disease
..	..	..	1	..	..	..	1	..	..	1	12	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
..	..	1	..	..	1	..	1	..	..	..	14	Ophthalmia
4	44	9	2	1	8	4	14	2	37	..	530	Accidents and diseases not classified
10	118	23	8	5	29	8	34	6	88	9	1072	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) Dr. JOHN MEDD,
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(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) ,, E. HALLEY,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, GEO. GREAVES.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Aneoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	1	..	..	..	..	1	..
Measles	..	..	1	..	..	..	..	..	..	..	1	1
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	3	..	1	..	..	..	..	..	..	4	5
Fever	1	..	..	1	..	..	1	..	1	2	6	5
Diseases of the Lungs	10	3	..	4	9	8	3	*9	13	4	63	62
Other causes	23	5	18	13	15	14	9	5	†16	4	122	132
TOTAL NO. OF DEATHS.	34	11	19	19	24	23	13	14	30	10	197	205
TOTAL NO. OF BIRTHS.	45	32	15	15	28	37	21	30	42	14	279	302

* 7 Inquests. † 1 From Tetanis.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thompson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th December.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	TOTAL.	DISEASES.	5 Weeks ending 29th December.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	TOTAL.
10	4	2	16	.... Small-pox	10	12	9	31
19	11	6	36	.... Chicken-pox	15	1	2	18
54	31	9	94	..... Measles	24	30	21	75
30	21	13	64	.... Scarlatina	5	7	11	23
1	1	3	5	.... Diphtheria	..	5	3	8
49	53	67	169	.. Whooping-cough ..	7	16	41	64
1	1	3	5	..... Croup	..	3	4	7
183	162	197	542	.....Diarrhœa.. ...	98	93	91	282
8	6	5	19	.... Dysentery	10	16	18	44
..	..	....	..	..... Cholera	..	..	....	....
16	24	18	58	.... Erysipelas	24	23	45	92
..	..	....	..	.. Puerperal Fever ..	1	2	2	5
25	10	16	51	..... Insanity	41	35	38	114
1020	1312	1062	3394	Bronchitis and Catarrh	1112	1257	974	3343
18	18	14	50	..... Pleurisy	24	8	13	50
26	30	22	78	... Pneumonia	28	34	23	85
3	8	6	17	.... Carbuncle	8	4	9	21
3475	3067	3468	10010	Accidents, and all other Diseases	3176	2708	2896	8780
4938	4759	4911	14608	..... TOTAL	4583	4254	4205	13042

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, APRIL 13, 1861. [No. 37.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw, A. NEILD, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	30·335	30·306	—	30·342	29·275
Highest (Unreduced)	—	30·512	30·480	—	30·538	29·604
Lowest (Unreduced)	—	30·207	30·198	—	30·226	29·332
Range	—	0·305	0·282	—	0·312	0·272
Temperature.						
Adopted Mean	43·5	44·5	44·3	44·2	43·7	41·5
Range for Week	25·0	32·8	33·7	29·8	29·3	31·5
Daily Range	16·3	24·0	23·6	21·8	20·3	17·5
Maximum in Shade	60·0	62·8	62·7	60·2	58·8	61·0
Minimum in Shade	35·0	30·0	29·0	30·4	29·5	29·5
Maximum in Sun	—	79·8	70·2	79·2	68·0	65·0
Maximum in Sun: Black bulb in Vacuo	—	94·5	—	—	—	—
Minimum on Grass	—	25·0	21·2	27·3	26·0	26·5
Temperature in Ground at surface	—	40·07	42·33	—	—	—
Temperature 6 inches below	—	40·67	42·01	—	—	(a) 41·17
Temperature 12 inches below	—	42·52	44·63	—	—	(b) 41·17
Temperature of Evaporation	40·3	41·1	40·8	—	40·5	39·3
Temperature of Dew Point	36·5	37·2	36·7	—	36·8	36·6
Temperature of Air—Dew Point	7·0	7·3	7·6	—	6·9	4·9
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·51	2·57	2·53	—	2·53	2·51
Required to Saturate do	0·74	0·78	0·80	—	0·74	0·54
Weight of a cubic foot of Air	558·6	557·4	557·2	—	558·5	540·3
Degree of Humidity (Saturation—1,000)	0·763	0·747	0·743	—	0·761	0·834
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	2·99	3·07	3·01	—	3·01	3·00
Elastic force of Vapour	0·216	0·222	0·218	—	0·218	0·217
Clouds (Covered—10 Clear—0)	—	6·3	3·0	—	5·9	4·6
Prevailing Winds	—	S.E.	S.W.	E.&N.E.	S.E.&E.	S.E.
Rain	—	0·000	0·000	0·000	0·000	0·000
Days on which it fell	—	0	0	0	0	0
Ozonometer.						
Moffat (0—10)	—	0·00	—	—	3·15	3·00
Schonbein (0—10)	—	0·00	—	—	0·00	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·067	0·072	0·074	—	0·067	0·045
Weekly Evaporation	0·469	0·504	0·518	—	0·469	0·315

(a) 3 Feet below the ground. *(b)* 4 Feet below the ground.

There were 4 barometric occillations during the week, the amount being 0·586 inches; this is the least weekly amount recorded this year. There were 6 temperature oscillations, the amount being 19·0°. The mean temperature of the week was 1·6° below the average of the last twelve years. The mean of the maxima temperatures in the sun, was 15·9° higher than that of the corresponding week last year.

The mean temperature of the week was the lowest at the Royal Infirmary, and the highest at Old Trafford. The ranges of temperature were large at all the stations. The degree of humidity was the highest at the Royal Infirmary, and the lowest at Sale; but all the stations showed a considerable reduction in the amount of moisture on previous weeks. Ozone was found at Thelwall every day, but at Old Trafford none was detected during the week.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
April 16th 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	4	..	..	..	..	4	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	1	1	..	1	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	1	..	1	..	2	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	..	1	1	2	..	1	..	..	..	2	3
Dysentery	..	..	..	..	..	..	..	..	1	..	..	..	..	3
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	1	1	..	1	..	..	2	..	1	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	1	..	..	1	4	..	35	4	5	3	..	1
Constitutional Syphilis	1	..	..	..	..	1	1	1	10	..	1	2	..	..
Phthisis	1	3	1	1	..	6	3	1	30	..	2	2	3	..
Mesenteric Disease	..	..	..	..	..	..	2	..	..	..	1	..	1	..
Disease of Heart	..	..	..	..	..	..	1	..	10	..	2	..	..	..
Insanity	..	..	..	..	..	..	3	..	..	..	..	..	..	..
Bronchitis	1	..	7	3	1	12	13	..	80	2	2	3	3	1
Influenza and Catarrh	..	2	..	3	3	8	9	..	9	1	..	3	5	..
Pleurisy	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Pneumonia	..	..	..	..	1	1	1	..	..	..	..	..	1	1
Dyspepsia	2	..	..	..	..	2	3	..	26	2	3	..	2	1
Kidney Disease	..	..	..	..	..	..	..	2	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	2	1	..	..	5
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	1	..	..	..	..	1	..	..	1	..	..	..	2	1
Accidents and diseases not classified	3	8	2	15	11	39	49	45	261	3	8	7	27	8
Total	13	13	11	22	18	77	93	51	465	15	28	20	50	25

‖ Return not received or received too late for publication.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
y, the 13th day of April, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
..1,329.				.... 477.			.. 646.		508	....	....	.....	Area in Statute Acres.
63,851.				.. 53,470.			.. 35,546.		16180	....	....	.....	Population in 1851.
LAW CTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
6	17	18	19	20	21	22	23	24	25	26	27		
.	..	..	..	..	..	..	..	..	..	..	..	4	Small-pox
.	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
.	..	..	..	..	..	..	1	..	..	..	..	4	Measles
.	..	1	..	..	..	..	..	..	..	..	1	3	Scarlatina
.	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
.	..	3	..	..	..	1	2	5	..	..	..	16	Whooping-cough
.	..	..	..	..	..	..	..	..	..	..	..	..	Croup
.	1	2	..	2	..	1	..	..	..	4	1	21	Diarrhœa
.	..	3	..	..	..	..	..	1	..	..	..	8	Dysentery
.	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
.	..	2	..	1	1	..	..	..	..	3	..	13	Continued Fever
.	..	..	..	..	..	..	..	3	1	..	1	5	Erysipelas
.	..	..	..	..	..	..	..	..	..	..	1	1	Puerperal Fever
.	3	3	..	..	..	..	..	2	..	2	1	65	Rheumatism
.	..	1	..	..	..	..	..	1	..	2	1	22	Constitutional Syphilis
.	..	4	..	..	..	..	..	4	..	6	2	63	Phthisis
.	..	..	..	..	..	..	..	..	..	..	1	5	Mesenteric Disease
.	..	1	..	..	..	..	..	..	..	2	..	16	Disease of Heart
.	6	1	..	..	..	..	..	..	..	..	..	10	Insanity
.	2	19	..	1	1	4	4	7	1	12	..	168	Bronchitis
.	..	15	5	..	..	3	..	3	1	1	1	64	Influenza and Catarrh
.	1	..	..	..	..	..	..	1	..	..	..	3	Pleurisy
.	1	2	1	..	..	..	..	..	..	1	..	9	Pneumonia
.	..	4	..	..	1	6	..	2	..	3	1	57	Dyspepsia
.	..	1	..	1	..	..	..	..	..	..	1	5	Kidney Disease
.	..	..	..	1	..	..	..	3	..	..	..	12	Neuralgic Affections
.	..	..	..	..	..	..	..	1	..	..	..	1	Carbuncle
.	..	..	..	..	..	..	..	2	..	..	..	7	Ophthalmia
.	4	61	15	2	9	6	7	22	2	42	..	624	Accidents and diseases not classified
.	18	123	21	8	12	21	14	57	5	78	12	1206	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	..	1	..	..	..	..	..	..	..	2	1
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	1	1	..	..	..	..	..	1	3	5
Fever	2	..	..	1	..	..	..	1	..	..	4	4
Diseases of the Lungs	6	8	..	4	6	4	1	5	10	3	47	65
Other causes	13	11	12	10	7	8	8	7	21	4	101	136
TOTAL NO. OF DEATHS.	22	19	14	16	13	12	9	13	31	8	157	211
TOTAL NO. OF BIRTHS.	48	44	33	31	34	39	23	42	54	21	369	287

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 26th January.	4 Weeks ending 23rd February.	5 Weeks ending 30th March.	TOTAL.	DISEASES.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	5 Weeks ending 30th March.	TOTAL.
4	2	2	8	.... Small-pox	12	9	5	26
11	6	4	21	.... Chicken-pox	1	2	10	13
31	9	17	57	..... Measles	30	21	14	65
21	13	14	48	.... Scarlatina	7	11	7	25
1	3	5	9	.... Diphtheria	5	3	..	8
53	67	67	187	.. Whooping-cough ..	16	41	55	112
1	3	1	5	..... Croup	3	4	4	11
162	197	234	593	.....Diarrhœa.. ...	93	91	119	303
6	5	5	16	.... Dysentery	16	18	14	48
..	....	..	..	..... Cholera	..	....	..	....
24	18	21	63	.... Erysipelas	23	45	38	106
..	....	1	1	.. Puerperal Fever ..	2	2	3	7
10	16	29	55	..... Insanity	35	38	40	113
1312	1062	876	3250	Bronchitis and Catarrh	1257	974	992	3229
18	14	11	43	..... Pleurisy	8	13	16	37
30	22	28	80	... Pneumonia	34	23	35	92
8	6	12	26	.... Carbuncle	4	9	5	18
3067	3468	4031	10566	{ Accidents, and all other Diseases }	2708	2896	3576	9180
4759	4911	5358	15028	..... TOTAL	4254	4205	4933	13393

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, APRIL 20, 1861. [No. 38.

Meteorological Observations, taken at Manchester and the Neighbourhood.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	30·199	30·176	—	30·220	29·299
Highest (Unreduced)	—	30·404	30·380	—	30·396	29·426
Lowest (Unreduced)	—	30·046	30·042	—	30·088	29·298
Range	—	0·358	0·338	—	0·308	0·128
Temperature.						
Adopted Mean	47·0	48·5	47·9	49·0	47·1	45·3
Range for Week	28·0	38·6	38·5	36·0	33·1	25·5
Daily Range	16·3	22·3	23·2	23·5	20·0	17·5
Maximum in Shade	67·0	71·6	69·3	69·4	65·5	60·0
Minimum in Shade	39·0	33·0	30·8	33·4	32·4	34·5
Maximum in Sun	—	92·5	79·8	84·6	73·8	68·0
Maximum in Sun: Black bulb in Vacuo	—	103·0	—	—	—	—
Minimum on Grass	—	27·3	22·7	28·2	29·0	23·0
Temperature in Ground at surface	—	43·24	46·68	—	—	—
Temperature 6 inches below	—	43·79	46·54	—	—	(a) 44·1
Temperature 12 inches below	—	45·37	48·41	—	—	(b) 43·5
Temperature of Evaporation	43·8	44·3	43·3	—	43·3	40·8
Temperature of Dew Point	40·2	39·7	38·2	—	39·0	35·7
Temperature of Air—Dew Point	6·8	8·8	9·7	—	8·1	9·6
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·86	2·81	2·67	—	2·75	2·43
Required to Saturate do	0·84	1·09	1·12	—	0·96	1·03
Weight of a cubic foot of Air	552·0	551·4	550·7	—	552·4	519·4
Degree of Humidity (Saturation—1,000)	0·778	0·718	0·703	—	0·743	0·693
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·44	3·37	3·19	—	3·29	2·89
Elastic force of Vapour	0·249	0·244	0·231	—	0·238	0·209
Clouds (Covered—10 Clear—0)	—	3·3	2·8	—	2·4	3·8
Prevailing Winds	—	N.E.	S.W.&S.E	N.E.	E.&S.E.	E.
Rain	—	0·000	0·000	0·000	0·000	0·000
Days on which it fell	—	0	0	0	0	0
Ozonometer.						
Moffat (0—10)	—	0·09	—	—	2·71	3·85
Schonbein (0—10)	—	0·09	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·074	0·098	0·103	—	0·086	0·094
Weekly Evaporation	0·518	0·686	0·721	—	0·602	0·658

(a) 3 Feet below the ground. (b) 4 Feet below the ground.

There were 4 barometric oscillations during the week, the amount being 0·788 inches; this, although in excess of last week, is much below the average of the season. There were 4 temperature oscillations, the amount being 16·6°. The mean temperature of the week was 1·1° above the average of the last twelve years. The highest mean weekly temperature occurred at Bowdon, and the lowest at Ollerenshaw.

The degree of humidity was the highest at the Royal Infirmary, and the lowest at Ollerenshaw. Ozone was not found at Old Trafford on any day during the week, but on every day at Thelwall and Ollerenshaw.

No rain fell at any of the stations during the week.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
April 23rd 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in Pa

During the Wee

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	1	1	..	..	..	2	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Whooping-cough	..	..	1	..	..	1	1	..	..	..	..	..	..	1
Croup	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	..	..	..	1	..	1	..	..	..	8	1
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Continued Fever	..	..	3	..	..	3	1	2	1	..	1	..	2	1
Erysipelas	..	..	..	..	..	..	..	..	..	..	1	..	1	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	1	..	..	1	4	..	29	4	2	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	1	..	6	..	1	..	..	1
Phthisis	1	1	..	1	2	5	7	..	20	3	4	3	1	..
Mesenteric Disease	..	..	1	..	1	2	1	..	..	..	..	..	1	..
Disease of Heart	..	..	..	..	..	..	2	1	11	3	1	1	..	..
Insanity	..	..	..	..	..	..	3	..	..	..	..	..	..	..
Bronchitis	..	2	3	2	4	11	11	..	68	6	6	6	12	6
Influenza and Catarrh	..	..	..	1	2	3	2	..	7	4	..	..	4	..
Pleurisy	..	..	..	..	..	..	..	..	1	..	..	1	..	..
Pneumonia.....	..	..	..	1	..	1	1	..	..	..	..	2	..	..
Dyspepsia	1	1	..	..	1	3	2	..	42	2	1	2	1	1
Kidney Disease	..	..	..	..	..	..	..	2	1	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	1	7	..	..	1	1	1
Carbuncle	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Ophthalmia.....	2	..	..	..	..	2	..	..	1	..	..	..	2	..
Accidents and diseases not classified	4	3	8	10	3	28	40	32	257	..	3	8	40	9
Total.....	9	8	17	16	13	63	79	38	453	22	22	24	73	21

‖ Return not received or received too late for publication.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
y, the 20th day of April, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
..1,329.....			.... 477.....			.. 646..		508	....	....	.....	Area in Statute Acres.
63,851.			.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
AW CTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.								
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
6	17	18	19	20	21	22	23	24	25	26	27		
.	..	..	..	..	..	..	..	..	..	..	..	2	Small-pox
.	..	..	..	..	..	..	..	..	..	..	1	1	Chicken-pox
.	..	..	..	..	..	..	..	..	..	..	..	2	Measles
.	..	..	..	..	..	..	..	1	..	..	..	1	Scarlatina
.	..	..	.	..	..	..	..	..	..	..	..	1	Diphtheria
.	..	3	..	..	..	..	..	6	..	..	..	12	Whooping-cough
.	..	..	..	..	..	..	..	1	..	..	..	2	Croup
.	..	1	3	..	1	..	..	1	..	2	1	20	Diarrhœa
.	..	3	..	..	..	..	..	..	..	..	..	4	Dysentery
.	..	..	..	..	..	..	..	..	..	..	..	1	Cholera
.	1	..	..	..	1	..	..	2	..	1	..	17	Continued Fever
.	..	..	..	..	..	..	..	2	..	..	1	5	Erysipelas
.	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
.	1	3	..	..	..	..	..	3	..	3	..	50	Rheumatism
.	..	..	..	..	..	..	1	1	..	1	1	13	Constitutional Syphilis
.	..	8	..	..	..	..	1	3	..	5	2	62	Phthisis
.	..	1	..	..	..	..	..	..	..	..	1	6	Mesenteric Disease
.	..	..	..	..	..	..	..	1	..	1	..	21	Disease of Heart
.	2	..	..	..	1	..	..	..	..	..	2	8	Insanity
.	1	26	..	..	1	3	4	8	1	8	..	180	Bronchitis
.	3	..	4	..	3	5	..	3	..	2	2	45	Influenza and Catarrh
.	..	..	..	..	..	..	..	..	..	..	..	2	Pleurisy
.	..	..	1	..	..	..	..	1	..	1	..	7	Pneumonia
.	..	6	..	1	1	3	..	3	..	2	3	73	Dyspepsia
.	..	..	..	..	..	..	..	..	..	..	..	3	Kidney Disease
.	..	1	..	..	..	..	1	2	..	..	..	16	Neuralgic Affections
.	..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
.	..	1	..	..	..	..	1	2	..	..	1	10	Ophthalmia
.	7	86	12	5	..	6	4	18	2	40	..	604	Accidents and diseases not classified
.	15	139	20	6	8	17	12	58	3	66	15	1169	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) " EVAN THOMAS,
(6) " J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) Dr. JOHN MEDD,
(9) Mr. J. S. DAVIES,
(10) " W. J. MALLETT,
(11) " H. RUNCORN,
(12) Mr. J. O. BRADBURY,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) " J. TEALE,
(16) " M. O. LARMUTH,
(17) " T. F. BROWNBILL
(18) Mr. J. O. BRADBURY,
(19) " W. B. STOTT,
(20) " T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) " JOHN RAYNER,
(25) " J. M. KIRKMAN.
(26) " N. PICKFORD,
(27) " J. V. L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	½
Measles	2	..	..	..	..	..	..	..	..	..	2	1
Scarlatina	..	1	..	..	..	..	..	..	..	..	1	½
Diarrhœa	1	1	..	..	..	..	..	..	3	..	5	4
Fever	1	..	1	..	..	1	†1	1	1	..	6	4
Diseases of the Lungs ..	14	4	..	3	5	*4	5	5	11	..	51	59
Other causes.....	12	17	36	3	12	11	15	15	14	3	138	133
TOTAL NO. OF DEATHS.	30	23	37	6	17	16	21	21	29	3	203	202
TOTAL NO. OF BIRTHS.	48	42	23	20	22	25	21	28	54	19	302	309

* 1 Inquest. † Intermitted, 5 weeks duration.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 26th January.	4 Weeks ending 23rd February.	5 Weeks ending 30th March.	TOTAL.	DISEASES.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	5 Weeks ending 30th March.	TOTAL.
4	2	2	8	... Small-pox	12	9	5	26
11	6	4	21	... Chicken-pox	1	2	10	13
31	9	17	57	..... Measles	30	21	14	65
21	13	14	48	.... Scarlatina ...	7	11	7	25
1	3	5	9	.... Diphtheria	5	3	..	8
53	67	67	187	.. Whooping-cough ..	16	41	55	112
1	3	1	5	..... Croup	3	4	4	11
162	197	234	593	.....Diarrhœa.. ...	93	91	119	303
6	5	5	16	.... Dysentery	16	18	14	48
..	....	..	..	..... Cholera	..	....	..	....
24	18	21	63	... Erysipelas	23	45	38	106
..	....	1	1	.. Puerperal Fever ..	2	2	3	7
10	16	29	55	..... Insanity ..	35	38	40	113
1312	1062	876	3250	Bronchitis and Catarrh	1257	974	992	3229
18	14	11	43	..... Pleurisy	8	13	16	37
30	22	28	80	. Pneumonia	34	23	35	92
8	6	12	26	.... Carbuncle ...	4	9	5	18
3067	3468	4031	10566	Accidents, and all other Diseases	2708	2896	3576	9180
4759	4911	5358	15028	..... TOTAL	4254	4205	4933	13393

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Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

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HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, APRIL 27, 1861. [No. 39.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·897	29·902	—	29·915	29·026
Highest (Unreduced)	—	30·139	30·138	—	30·150	29·210
Lowest (Unreduced)	—	29·784	29·804	—	29·814	28·972
Range	—	0·355	0·334	—	0·336	0·238
Temperature.						
Adopted Mean	45·7	46·1	45·8	46·3	45·1	44·4
Range for Week	20·5	30·0	32·1	26·8	24·8	29·5
Daily Range	11·2	19·3	22·4	18·6	13·4	15·7
Maximum in Shade	57·0	63·0	63·1	60·0	57·0	61·0
Minimum in Shade	36·5	33·0	31·0	33·2	32·2	31·5
Maximum in Sun	—	83·5	74·8	77·6	71·5	68·0
Maximum in Sun: Black bulb in Vacuo	—	96·7	—	—	—	—
Minimum on Grass	—	28·2	23·2	32·2	31·0	31·1
Temperature in Ground at surface	—	43·76	46·71	—	—	—
Temperature 6 inches below	—	44·21	46 60	—	—	(a) 44·18
Temperature 12 inches below	—	45·77	48·43	—	—	(b) 43·86
Temperature of Evaporation	43·3	43·8	43·1	—	43·6	43·0
Temperature of Dew Point	40·6	41·2	40·0	—	41·9	41·4
Temperature of Air—Dew Point	5·1	4·9	5·8	—	3·2	3·0
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·89	3·03	2·84	—	3·01	2·96
Required to Saturate do	0·65	0·58	0·72	—	0·41	0·38
Weight of a cubic foot of Air	548·6	547·4	547·9	—	548·8	514·9
Degree of Humidity (Saturation—1,000)	0·829	0·840	0·809	—	0·886	0·892
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·50	3·57	3·32	—	3·68	3·61
Elastic force of Vapour	0·253	0·258	0·247	—	0·266	0·261
Clouds (Covered—10 Clear—0)	—	9·2	4·9	—	9·2	9·4
Prevailing Winds	—	S.W.&W.	Variable.	—	—	N.&N.W.
Rain	—	0·471	0·530	0·280	0·559	0·670
Days on which it fell	—	4	3	2	3	5
Ozonometer.						
Moffat (0—10)	—	0·00	—	—	2·71	3·57
Schonbein (0—10)	—	0·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·054	0·054	0·061	—	0·035	0·032
Weekly Evaporation	0·378	0·378	0·427	—	0·245	0·224

(a) 3 Feet below the surface. *(b)* 4 Feet below the surface.

There were 5 barometric oscillations during the week, the amount being 0·714 inches; this is slightly below that of last week, and greatly below the average for the season. There were 5 temperature oscillations, the amount being 36·8°; this is a very considerable advance upon the previous week. The mean temperature of the week was 0·6° below the average of the last 12 years. The mean temperature of the week was the highest at Bowdon, and the least at Thelwall.

The degree of humidity was the lowest at Sale, and the highest at Ollerenshaw.

Ozone was not found upon any day during the week at Old Trafford, but upon every day at Thelwall and Ollerenshaw. Snow fell heavily upon the morning of the 27th.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
April 30th 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in Pa

During the We

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital
Small-pox	..	..	..	..	..	..	..	1	..	..	1	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	1	..	..	2	..	..	..	1
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	2	2	..	..	..	..	..	..	3	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	1	1	1	..	3	1	..	1	3	2	1	2	3
Dysentery	..	..	..	..	..	..	..	..	2	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	1	..	..	..	..	5	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Puerperal Fever.....	..	..	2	..	..	2	..	..	..	..	..	..	..	..
Rheumatism	..	..	..	1	..	1	5	1	21	3	2	2	..	..
Constitutional Syphilis	..	1	..	..	..	1	1	..	7	1	..	2	1	..
Phthisis	..	..	3	..	3	6	2	..	28	4	1	1	2	..
Mesenteric Disease	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Disease of Heart	..	..	..	..	..	..	..	1	6	2	..	..	..	..
Insanity	..	..	..	1	..	1	3	..	..	..	..	..	..	..
Bronchitis	2	..	6	2	5	15	14	..	54	6	3	4	7	[illegible]
Influenza and Catarrh	..	3	..	2	..	5	4	..	10	3	2	3	1	..
Pleurisy	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Pneumonia.....	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Dyspepsia	..	..	2	..	..	2	1	..	15	..	..	..	2	..
Kidney Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	4	..	..	2	..	[illegible]
Carbuncle	..	1	..	..	..	1	..	..	..	..	1	..	..	..
Ophthalmia.....	.	..	..	..	..	..	..	..	1	..	..	..	3	..
Accidents and diseases not classified	2	7	..	2	5	16	45	22	242	2	9	8	30	1[illegible]
Total.....	4	13	14	9	15	55	79	26	392	26	22	24	56	2[illegible]

‖ Return not received or received too late for publication.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
, *the 27th day of April*, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
.1,329.			.... 477.			.. 646.		508	....	....	.....	Area in Statute Acres.
63,851.			.. 53,470.			.. 35,546.		16180	....	....	.....	Population in 1851.
LW TS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.								
6	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
.	..	..	..	..	..	..	..	..	..	..	..	2	Small-pox
.	..	1	..	..	..	..	..	..	..	..	..	1	Chicken-pox
.	..	..	..	..	..	..	..	..	..	..	..	4	Measles
.	..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
.	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
.	..	..	..	1	..	3	..	4	..	..	..	13	Whooping-cough
.	..	..	..	..	..	..	..	2	..	..	..	2	Croup
.	1	..	4	..	..	..	..	..	..	..	4	25	Diarrhœa
.	..	1	..	..	..	..	..	1	..	..	1	5	Dysentery
.	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
.	..	..	..	..	1	..	..	1	..	1	..	9	Continued Fever
.	..	..	..	..	..	..	..	2	..	1	..	4	Erysipelas
.	..	..	..	..	..	..	..	..	..	..	..	2	Puerperal Fever
.	2	3	..	..	..	2	2	3	1	2	3	53	Rheumatism
.	..	..	..	..	..	..	1	2	..	..	1	17	Constitutional Syphilis
.	..	7	..	1	1	..	..	3	..	3	2	61	Phthisis
.	..	..	..	..	..	..	..	..	..	..	..	2	Mesenteric Disease
.	..	..	..	..	..	..	..	1	..	..	1	11	Disease of Heart
.	5	..	..	..	..	..	..	..	..	..	..	10	Insanity
.	2	17	..	2	1	3	2	4	..	5	3	147	Bronchitis
.	4	..	5	4	1	5	1	..	..	3	1	52	Influenza and Catarrh
.	..	..	..	..	..	..	..	..	1	..	..	2	Pleurisy
.	..	2	..	..	..	..	..	..	..	..	..	3	Pneumonia
.	..	6	..	1	..	..	..	3	1	..	..	33	Dyspepsia
.	..	..	..	..	..	..	..	..	..	1	..	1	Kidney Disease
.	..	..	..	..	..	..	2	..	..	..	1	12	Neuralgic Affections
.	..	1	..	..	..	..	..	..	..	..	..	3	Carbuncle
.	..	1	1	..	..	..	1	5	..	..	1	13	Ophthalmia
.	9	95	11	5	7	5	4	19	1	55	..	608	Accidents and diseases not classified
.	23	134	21	14	11	18	13	50	4	71	18	1095	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,

(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD, Mr. J. S. DAVIES,
(10) (11) ,, W. J. MALLETT,
(12) ,, H. RUNCORN,

(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) ,, J. TEALE,
(16) ,,
(17) ,, T. F. BROWNBILL

(18) Mr. J. O. BRADBURY,
(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.

(23) Mr. W. B. MIDWOOD,
(24) ,, JOHN RAYNER,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, J. V. L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	1	1	..	..	..	..	..	..	2	1½
Scarlatina	1	..	..	..	..	..	..	..	..	..	1	½
Diarrhœa	..	1	..	..	..	1	2	..	..	..	4	4½
Fever	1	..	..	1	..	..	..	..	3	..	5	4
Diseases of the Lungs	10	9	..	7	..	4	5	6	3	3	47	56
Other causes	10	16	21	8	15	10	19	8	14	10	131	140
TOTAL NO. OF DEATHS.	22	26	22	17	15	15	26	14	20	13	190	206½
TOTAL NO. OF BIRTHS.	39	34	24	25	15	33	29	29	55	19	302	307

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 26th January.	4 Weeks ending 23rd February.	5 Weeks ending 30th March.	TOTAL.	DISEASES.	4 Weeks ending 26th January.	4 Weeks ending 23rd February.	5 Weeks ending 30th March.	TOTAL.
4	2	2	8	.... Small-pox	12	9	5	26
11	6	4	21	.... Chicken-pox	1	2	10	13
31	9	17	57	..... Measles	30	21	14	65
21	13	14	48	.... Scarlatina	7	11	7	25
1	3	5	9	.... Diphtheria	5	3	..	8
53	67	67	187	.. Whooping-cough ..	16	41	55	112
1	3	1	5	..... Croup	3	4	4	11
162	197	234	593	.....Diarrhœa.. ...	93	91	119	303
6	5	5	16	.... Dysentery	16	18	14	48
..	....	..	..	..... Cholera	..	....	..	....
24	18	21	63	.... Erysipelas	23	45	38	106
..	....	1	1	.. Puerperal Fever ..	2	2	3	7
10	16	29	55	..... Insanity	35	38	40	113
1312	1062	876	3250	Bronchitis and Catarrh	1257	974	992	3229
18	14	11	43	..... Pleurisy	8	13	16	37
30	22	28	80	... Pneumonia	34	23	35	92
8	6	12	26	.... Carbuncle	4	9	5	18
3067	3468	4031	10566	Accidents, and all other Diseases	2708	2896	3576	9180
4759	4911	5358	15028	..... TOTAL	4254	4205	4933	13393

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

EALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

OL. I.] WEEK ENDING SATURDAY, MAY 4, 1861. [No. 40.

ETEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	30·102	30·104	—	30·118	29·209
Highest (Unreduced)	—	30·240	30·228	—	30·280	29·376
Lowest (Unreduced)	—	29·992	29·996	—	30·024	29·126
Range	—	0·248	0·232	—	0·256	0·250
Temperature.						
Adopted Mean	46·1	46·8	47·1	46·5	46·1	43·1
Range for Week	22·0	29·3	35·8	33·7	24·3	26·4
Daily Range	12·4	17·6	19·0	15·6	14·6	12·7
Maximum in Shade	59·0	60·3	64·0	65·2	58·3	58·5
Minimum in Shade	37·0	31·0	28·2	31·5	34·0	32·1
Maximum in Sun	—	76·8	75·8	81·4	74·0	67·2
Maximum in Sun: Black bulb in Vacuo	—	90·8	—	—	—	—
Minimum on Grass	—	28·5	22·0	30·3	31·0	27·5
Temperature in Ground at surface	—	44·08	46·28	—	—	—
Temperature 6 inches below	—	44·33	46 71	—	—	(a) 43·98
Temperature 12 inches below	—	45·82	48·35	—	—	(b) 43·78
Temperature of Evaporation	42·8	43·5	43·2	—	43·7	40·9
Temperature of Dew Point	39·1	39·8	38·8	—	41·0	38·3
Temperature of Air—Dew Point	7·0	7·0	8·3	—	5·1	4·8
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·75	2·87	2·73	—	3·00	2·68
Required to Saturate do	0·86	0·85	0·98	—	0·61	0·54
Weight of a cubic foot of Air	551·5	551·3	520·3	—	551·4	520·0
Degree of Humidity (Saturation—1,000)	0·772	0·777	0·737	—	0·833	0·827
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·29	3·39	3·26	—	3·55	3·19
Elastic force of Vapour	0·238	0·245	0·236	—	0·257	0·231
Clouds (Covered—10 Clear—0)	—	7·4	4·1	—	6·8	7·8
Prevailing Winds	—	N.W.	N.W.	—	N.W.	N.W.
Rain	—	0·108	0·110	0·270	0·080	0·050
Days on which it fell	—	4	2	4	3	1
Ozonometer.						
Moffat (0—10)	—	0·71	—	—	3·50	1·78
Schonbein (0—10)	—	0·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·074	0·076	0·0·8	—	0·055	0·047
Weekly Evaporation	0·518	0·532	0 616	—	0·385	0·329

(a) 3 Feet below the surface. *(b)* 4 Feet below the surface.

There were 4 barometric oscillations during the week, the amount being 0·657 inches; this is a very small nount for the season. There were two temperature oscillations, the amount being 28·1°. The mean temperature the week was 0·2° above the average of the last twelve years, and 5·4° below the temperature of the corresponding ek last year; but May, last year, was the only warm month as compared with the average. The mean tempera-re was nearly uniform at all the Stations, Sale being the highest.

The degree of humidity was the highest at Thelwall, and the lowest at Sale. Ozone was found upon every y at Thelwall and Ollerenshaw, but upon one day only at Old Trafford. The fall of rain for the month of April s been as follows:—

	Height above Sea.	Fall in Inches.	Days.
Old Trafford	106	2·426	10
Sale	134	1·580	8
Bowdon	218	1·580	7
Thelwall	96	1·708	7
Ollerenshaw	808	1·975	8

The discrepancies in these are partly owing to the times of registering, the fall not being alike at all the ations.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
May 7th 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in

During the

	MANCHESTER.													
Area in Statute Acres	..... Manchester Township 1,645													
Population in 1851	..... „ „ 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childr	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	
Small-pox	..	..	..	1	..	1	..	1	..	..	1	..	..	
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough	..	..	..	..	..	..	..	..	..	1	..	..	3	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhœa	..	..	..	2	..	2	..	..	2	..	..	1	1	
Dysentery	..	..	..	..	..	..	..	..	2	..	..	..	..	
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	
Continued Fever	..	..	2	..	..	2	..	4	1	..	..	..	4	
Erysipelas	..	..	..	..	1	1	..	..	..	..	..	2	..	
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatism	..	1	1	2	..	4	5	..	15	1	1	..	..	
Constitutional Syphilis	..	..	..	..	..	..	1	..	7	..	2	..	2	
Phthisis	..	..	..	..	..	..	3	1	31	1	3	1	2	
Mesenteric Disease	..	..	..	..	..	..	1	..	..	..	..	..	1	
Disease of Heart	..	1	..	..	..	1	2	..	4	3	..	..	..	
Insanity	..	..	..	..	1	1	4	..	..	..	..	..	..	
Bronchitis	3	..	2	3	2	10	13	..	45	3	4	1	10	
Influenza and Catarrh	..	4	..	3	2	9	2	..	8	..	2	2	5	
Pleurisy	..	..	..	..	..	..	..	..	..	1	..	..	..	
Pneumonia.....	..	..	..	..	1	1	2	..	..	..	..	..	..	
Dyspepsia	2	..	1	..	..	3	2	..	31	..	1	1	5	
Kidney Disease	..	..	..	..	..	..	..	1	1	..	..	..	..	
Neuralgic Affections	..	..	..	..	..	..	..	..	10	..	1	1	..	
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ophthalmia.....	.	..	..	..	..	..	..	..	1	..	..	..	2	
Accidents and diseases not classified	5	8	5	2	10	30	43	37	243	5	4	6	25	
Total.....	10	14	11	13	17	65	78	44	401	15	19	15	60	2

‖ Return not received or received too late for publication.

D SANITARY ASSOCIATION.

e, and Public Institutions of Manchester and adjoining Districts,
day, the 4th day of May, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
....1,329.....				.... 477.....			.. 646..		508	....	....	.....	Area in Statute Acres.
.. 63,851.				.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
LAW RICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	..	3	Small-pox
..	..	..	..	..	..	..	..	..	..	..	2	2	Chicken-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Measles
..	..	..	..	..	..	..	..	..	..	..	..	1	Searlatina
..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	2	..	1	..	1	..	8	Whooping-cough
..	..	..	..	..	..	..	..	1	..	..	..	1	Croup
..	..	..	2	1	..	..	..	1	..	1	..	15	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	..	3	Dysentery
..	..	..	..	..	..	..	..	2	..	..	..	2	Cholera
..	..	..	..	1	..	..	1	..	..	1	..	16	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	..	3	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	2	4	4	..	2	1	..	3	1	1	..	45	Rheumatism
..	..	..	..	..	..	..	..	2	..	..	..	15	Constitutional Syphilis
..	2	7	..	..	..	..	..	2	..	2	2	61	Phthisis
..	..	..	..	..	..	..	..	..	..	1	1	4	Mesenteric Disease
..	..	2	..	..	..	..	..	1	..	..	1	15	Disease of Heart
.	3	..	..	..	..	..	..	..	..	..	3	12	Insanity
.	3	10	..	..	1	5	1	7	..	10	..	127	Bronchitis
.	1	7	5	..	4	4	..	2	1	3	1	58	Influenza and Catarrh
.	..	1	..	..	..	..	..	..	..	..	..	3	Pleurisy
.	..	..	1	..	..	..	..	..	..	..	..	5	Pneumonia
.	..	7	2	..	..	4	..	5	..	..	..	62	Dyspepsia
.	..	..	..	..	..	..	..	..	..	..	..	3	Kidney Disease
.	..	..	..	..	..	..	1	1	..	..	1	15	Neuralgie Affections
.	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
.	..	..	..	..	..	..	..	..	..	..	1	6	Ophthalmia
.	8	77	5	2	2	3	3	25	..	37	..	570	Accidents and diseases not classified
.	19	115	19	4	9	19	6	53	2	57	12	1055	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

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(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.

(23) Mr. W. B. MIDWOOD,
(24) ,, JOHN RAYNER,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, J. V. L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..	2
Scarlatina	1	..	..	..	..	..	..	..	..	..	1	½
Diarrhœa	1	..	..	..	..	..	..	1	..	..	2	4
Fever	..	..	..	..	1	1	1	..	..	1	4	5
Diseases of the Lungs	7	10	..	4	3	7	2	5	16	2	56	52
Other causes	13	11	21	11	8	10	11	13	10	4	112	123
TOTAL NO. OF DEATHS.	22	21	21	15	12	18	14	19	26	7	175	186½
TOTAL NO. OF BIRTHS.	45	46	26	20	13	34	44	40	59	21	348	313

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 23rd February.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	TOTAL.	DISEASES.	4 Weeks ending 23rd February.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	TOTAL.
2	2	..	4	.... Small-pox	9	5	8	22
6	4	9	19	.... Chicken-pox ...	2	10	2	14
9	17	22	48	..... Measles	21	14	19	54
13	14	10	37	.... Scarlatina ...	11	7	6	24
3	5	5	13	.... Diphtheria	3	..	1	4
67	67	85	219	.. Whooping-cough ..	41	55	53	149
3	1	..	4	..... Croup	4	4	5	13
197	231	190	621	.....Diarrhœa.. ...	91	119	80	290
5	5	2	12	.... Dysentery	18	14	22	54
....	..	..	..	..... Cholera	....	..	1	1
18	21	18	57	.... Erysipelas	45	38	19	102
....	1	..	1	.. Puerperal Fever ..	2	3	3	8
16	29	13	58	..... Insanity ...	38	40	33	111
1062	876	611	2579	Bronchitis and Catarrl	974	992	869	2835
14	11	18	43	..... Pleurisy	13	16	11	40
22	28	18	68	.. Pneumonia	23	35	27	85
6	12	3	21	.... Carbuncle ...	9	5	6	20
3468	4031	3450	10949	Accidents, and all other Diseases	2896	3576	3100	9572
4911	5358	4484	14753	..... TOTAL	4200	4933	4265	13398

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, MAY 11, 1861. [No. 41.

Meteorological Observations, taken at Manchester and the Neighbourhood.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	NO RETURN.
Mean @ 32° F.	—	29·835	29·841	—	29·846	
Highest (Unreduced)	—	30·219	30·194	—	30·246	
Lowest (Unreduced)	—	29·690	29·716	—	29·688	
Range	—	0·529	0·478	—	0·558	
Temperature.						
Adopted Mean	42·3	42·5	42·7	42·3	41·7	
Range for Week	21·0	30·8	34·0	30·0	28·5	
Daily Range	13·2	19·5	20·9	20·9	18·4	
Maximum in Shade	56·0	58·8	59·0	59·0	56·5	
Minimum in Shade	35·0	28·0	25·0	29·0	28·0	
Maximum in Sun	—	73·3	71·0	75·9	74·0	
Maximum in Sun: Black bulb in Vacuo	—	88·5	—	—	—	
Minimum on Grass	—	25·0	17·7	26·2	25·0	
Temperature in Ground at surface	—	40·36	43·77	—	—	
Temperature 6 inches below	—	41·21	43·68	—	—	
Temperature 12 inches below	—	44·25	47·24	—	—	
Temperature of Evaporation	38·1	38·4	37·8	—	37·7	
Temperature of Dew Point	33·0	33·4	31·9	—	32·8	
Temperature of Air—Dew Point	9·3	9·1	10·8	—	8·9	
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	
Weight of Vapour in a cubic foot of Air	2·19	2·23	2·09	—	2·17	
Required to Saturate do	0·94	0·92	1·08	—	0·90	
Weight of a cubic foot of Air	551·1	551·1	550·6	—	552·5	
Degree of Humidity (Saturation—1,000)	0·708	0·714	0·666	—	0·714	
	INS.	INS.	INS.	INS.	INS.	
Water in a vertical column of the Atmosphere	2·60	2·64	2·49	—	2·57	
Elastic force of Vapour	0·188	0·191	0·180	—	0·186	
Clouds (Covered—10 Clear—0)	—	4·7	5·0	—	7·1	
Prevailing Winds	—	N.E.	N.E.	—	N.W.&N.	
Rain	—	0·036	0·060	0·010	0·100	
Days on which it fell	—	1	1	1	2	
Ozonometer.						
Moffat (0—10)	—	0·00	—	—	2·57	
Schonbein (0—10)	—	0·00	—	—	—	
	INS.	INS.	INS.	INS.	INS.	
Daily Evaporation	0·082	0·081	0·094	—	0·078	
Weekly Evaporation	0·574	0·567	0·658	—	0·546	

There were 3 barometric oscillations during the week, the amount being 0·661 inches; this is still greatly below the average for the season. There were 5 temperature oscillations, the amount being 21·9°.

The mean temperature of the week was 5·5° below the average of the corresponding week for the last twelve years, and also the lowest temperature of the series. The mean temperature was nearly uniform at all the stations, Thelwall having the lowest, and Sale the highest mean temperature. Outside the city frost prevailed upon the last four nights of the week.

Ozone was detected upon 6 days at Thelwall, but was not found on any day at Old Trafford, the continued prevalence of northerly winds being no doubt the cause of its absence at the latter station.

Old Trafford, Manchester,
May 15th 1861.

G. V. VERNON, F.R.A.S.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week

	MANCHESTER.													
Area in Statute Acres	..... Manchester Township 1,645													
Population in 1851	..... „ „ 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	..	2	..	..	..	2	1	..	1	..	..	..	1	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	1	..	..	..	..	..	..	2
Scarlatina	..	1	..	..	..	1	..	..	..	2	..	..	..	1
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	1	..	..	..	1	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	..	..	..	2	..	5	2	..	..	4	3
Dysentery	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	1	..	..	1	..	3	..
Erysipelas	..	..	..	..	..	..	2	..	1	..	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	1	..	2	3	2	1	12	1	1	3	1	1
Constitutional Syphilis	..	..	..	..	..	..	1	..	9	2	..	..	5	..
Phthisis	..	1	..	1	1	3	4	..	29	4	2	4	1	..
Mesenteric Disease	..	..	..	..	..	..	1	..	2	..	..	..	..	..
Disease of Heart	..	1	..	..	..	1	2	1	5	..	..	1	1	..
Insanity	1	..	..	..	..	1	5	..	..	..	..	..	..	..
Bronchitis	..	..	2	1	2	5	12	1	47	5	4	7	8	4
Influenza and Catarrh	..	..	..	2	1	3	3	..	7	..	1	2	3	..
Pleurisy	..	..	..	..	..	..	..	..	..	..	1	1	..	1
Pneumonia.....	..	..	..	..	1	1	..	..	..	..	..	..	2	..
Dyspepsia	..	..	..	..	..	..	2	..	32	..	1	2	1	4
Kidney Disease	..	..	..	..	..	..	..	..	2	1	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	4	..	2	2	..	2
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	.	..	..	..	..	..	1	..	3	..	..	..	4	2
Accidents and diseases not classified	1	3	..	4	8	16	39	29	374	..	4	9	25	1
Total.....	2	8	3	8	15	36	78	33	535	17	17	31	60	22

Erratum.—The 2 cases of Cholera in last week's Return from the Chorlton Dispensary should have been Continued I

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
the 11*th day of May*, 1861.

LFORD.			HULME.			CHORL-TON.		ARD WICK				
1,329.			.... 477.			.. 646.		508	....	....	.....	Area in Statute Acres.
63,851.			.. 53,470.			.. 35,546		16180	....	....	.....	Population in 1851.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Ancoats Dispensary. 26	Chorlton Union Work-house. 27	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	5	Small-pox
..	..	..	..	..	..	..	..	..	..	1	1	Chicken-pox
..	..	..	..	..	..	..	..	..	..	..	3	Measles
..	..	..	..	..	..	..	..	..	..	..	4	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	4	..	8	..	..	..	15	Whooping-cough
..	..	..	..	..	..	..	1	..	..	..	1	Croup
..	..	3	2	..	..	..	1	..	..	..	23	Diarrhœa
..	1	..	..	..	..	..	1	..	1	..	4	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	1	..	2	..	2	..	12	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	3	Erysipelas
..	..	..	..	..	..	..	1	..	..	..	1	Puerperal Fever
1	1	2	..	1	..	1	2	..	4	2	40	Rheumatism
..	..	..	..	..	..	1	1	..	..	1	20	Constitutional Syphilis
..	8	..	..	..	..	..	2	..	2	1	60	Phthisis
..	..	..	..	..	..	1	3	..	..	..	7	Mesenteric Disease
..	..	..	..	..	..	..	..	..	..	1	12	Disease of Heart
4	..	..	..	..	..	..	..	..	..	1	12	Insanity
2	11	..	..	..	4	2	7	2	11	..	132	Bronchitis
6	10	8	1	2	3	..	..	..	1	1	52	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	..	..	3	Pleurisy
..	1	..	..	..	..	..	2	..	..	..	6	Pneumonia
..	6	1	1	2	4	2	1	..	2	..	64	Dyspepsia
..	1	..	..	..	..	..	..	..	..	..	6	Kidney Disease
..	1	..	..	..	..	..	..	..	..	..	11	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	1	2	Carbuncle
..	..	..	..	..	..	..	..	..	..	1	11	Ophthalmia
8	88	11	2	2	4	3	23	2	63	..	706	Accidents and diseases not classified
21	128	25	6	7	20	10	55	4	86	10	1216	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) " EVAN THOMAS,
(6) " J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD, Mr. J. S. DAVIES,
(10) (11) (12) " W. J. MALLETT, " H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) " J. TEALE,
(16) " T. F. BROWNBILL
(17) " J. V. L. WESTMACOTT
(18) Mr. J. O. BRADBURY,
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(24) " JOHN RAYNER,
(25) " J. M. KIRKMAN.
(26) " N. PICKFORD,
(27) " J. V. L. WESTMACOTT

‖ Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	1	..	..	..	..	..	..	..	..	..	1	..
Measles	..	..	..	1	..	..	..	..	..	..	1	1½
Scarlatina	..	..	..	..	..	..	..	1	..	..	1	1
Diarrhœa	1	..	..	..	..	1	..	1	..	..	3	3½
Fever	1	..	2	1	1	1	2	1	1	2	12	5
Diseases of the Lungs	13	3	..	..	7	*8	2	9	11	2	55	50
Other causes	19	16	20	5	8	8	16	7	14	2	115	120
TOTAL NO. OF DEATHS.	35	19	22	7	16	18	20	19	26	6	188	181
TOTAL NO. OF BIRTHS.	48	35	9	25	22	37	29	32	64	18	319	337

* 2 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 23rd February.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	TOTAL.	DISEASES.	4 Weeks ending 23rd February.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	TOTAL.
2	2	..	4	.... Small-pox	9	5	8	22
6	4	9	19	.... Chicken-pox	2	10	2	14
9	17	22	48	..... Measles	21	14	19	54
13	14	10	37	.... Scarlatina	11	7	6	24
3	5	5	13	.... Diphtheria	3	..	1	4
67	67	85	219	.. Whooping-cough ..	41	55	53	149
3	1	..	4	..... Croup	4	4	5	13
197	234	190	621	.....Diarrhœa.. ...	91	119	80	290
5	5	2	12	.... Dysentery	18	14	22	54
....	..	..	..	..... Cholera	....	..	1	1
18	21	18	57	.... Erysipelas	45	38	19	102
....	1	..	1	.. Puerperal Fever ..	2	3	3	8
16	29	13	58	..... Insanity	38	40	33	111
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HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, MAY 18, 1861. [No. 42.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	NO RETURN.
Mean @ 32° F.	—	30·123	30·105	—	30·137	
Highest (Unreduced)	—	30·354	30·332	—	30·370	
Lowest (Unreduced)	—	29·752	29·776	—	29·774	
Range	—	0·602	0·556	—	0·596	
Temperature.						
Adopted Mean	48·7	51·2	49·7	50·0	49·5	
Range for Week	37·0	36·8	38·9	35·1	30·0	
Daily Range	15·4	20·0	21·9	19·8	16·9	
Maximum in Shade	66·0	72·0	71·2	70·5	65·5	
Minimum in Shade	39·0	35·2	32·3	35·4	35·0	
Maximum in Sun	—	86·4	82·2	89·0	82·0	
Maximum in Sun: Black bulb in Vacuo	—	105·4	—	—	—	
Minimum on Grass	—	30·7	24·2	32·0	32·0	
Temperature in Ground at surface	—	46·05	48·71	—	—	
Temperature 6 inches below	—	46·23	48 60	—	—	
Temperature 12 inches below	—	47·30	49·87	—	—	
Temperature of Evaporation	45·6	46·4	47·6	—	47·3	
Temperature of Dew Point	42·3	41·4	45·6	—	44·9	
Temperature of Air—Dew Point	6·4	10·8	4·1	—	4·6	
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	
Weight of Vapour in a cubic foot of Air	3·11	2·96	3·51	—	3·44	
Required to Saturate do	0·83	1·28	0.56	—	0·61	
Weight of a cubic foot of Air	549·7	546·0	547·0	—	547·8	
Degree of Humidity (Saturation—1,000)	0·790	0·694	0·860	—	0·851	
	INS.	INS.	INS.	INS.	INS.	
Water in a vertical column of the Atmosphere	3·73	3·61	4·23	—	4·12	
Elastic force of Vapour	0·270	0·261	0·306	—	0·298	
Clouds (Covered—10 Clear—0)	—	8·3	4·1	—	6·8	
Prevailing Winds	—	N.W.	N.E&N.W	—	N.W.	
Rain	—	0·126	0·120	0·100	0·112	
Days on which it fell	—	2	1	1	1	
Ozonometer.						
Moffat (0—10)	—	0·00	—	—	2·85	
Schonbein (0—10)	—	0·00	—	—	—	
	INS.	INS.	INS.	INS.	INS.	
Daily Evaporation	0·074	0·116	0·051	—	0·057	
Weekly Evaporation	0·518	0·812	0·357	—	0·399	

There were 3 barometric oscillations during the week, the amount being 1·114 inches. There were 2 temperature oscillations, the amount being 26·7°.

The mean temperature of the week was 1·0° below the average of the last twelve years.

During the past week the temperature was higher in the country than in the town.

The daily range of temperature increased up to Sale, and then diminished to Thelwall.

Ozone occurred every day at Thelwall, but on no day at Old Trafford.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
May 21st 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in Pa

During the Wee

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	..	1	..	..	..	1	1	..	..	1	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	1	..	1	..	..	..	2	1	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	1	..	..	..	3	..
Croup	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Diarrhœa	..	..	1	..	..	1	..	..	2	..	1	..	..	1
Dysentery	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	2	..	1	..	1	..	3	3
Erysipelas	1	..	..	..	..	1	..	..	..	..	..	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	..	..	1	1	7	..	12	..	..	2	1	1
Constitutional Syphilis	1	..	..	..	..	1	1	..	8	..	..	..	2	1
Phthisis	..	1	..	..	..	1	7	..	24	3	..	5	1	..
Mesenteric Disease	..	..	..	..	1	1	1	..	..	..	..	..	..	..
Disease of Heart	2	1	..	1	..	4	..	..	11	2	..	2	..	..
Insanity	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Bronchitis	..	2	3	..	1	6	5	..	44	3	5	3	7	4
Influenza and Catarrh	..	..	..	1	1	2	2	..	10	..	1	3	5	..
Pleurisy	..	..	..	..	..	..	..	..	1	..	..	1	..	1
Pneumonia.....	..	..	..	..	..	..	1	..	1	..	..	..	1	..
Dyspepsia	..	..	1	..	..	1	1	..	29	2	..	1	..	2
Kidney Disease	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Neuralgic Affections	1	..	..	..	..	1	1	..	6	..	..	2	1	1
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	.	..	..	..	..	..	3	..	1	..	..	..	1	..
Accidents and diseases not classified	4	4	..	5	6	19	49	29	205	..	10	9	31	7
Total.....	9	9	6	8	10	42	83	29	356	14	20	29	56	21

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
, *the* 18*th day of May*, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
.1,329.....			.... 477.....			.. 646..		508	....	....	.....	Area in Statute Acres.
63,851.			.. 53,470. ..			.. 35,546.		16180	....	....	.....	Population in 1851.
W ts	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.								
6	Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Ancoats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
	..	..	..	..	..	..	..	..	..	..	..	3	Small-pox
	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
	..	1	..	..	..	2	..	..	..	..	..	7	Measles
	..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria
	..	..	..	..	..	2	..	6	..	..	..	12	Whooping-cough
	..	..	..	..	..	..	..	..	..	..	..	1	Croup
	1	1	3	..	..	..	..	2	..	..	1	14	Diarrhœa
	..	1	..	..	..	..	..	..	..	..	..	2	Dysentery
	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
	..	1	..	..	..	2	..	3	..	..	1	17	Continued Fever
	..	..	..	..	..	..	..	1	..	..	1	4	Erysipelas
	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
	2	4	..	..	1	..	1	3	..	3	2	40	Rheumatism
	..	..	..	..	..	1	..	1	..	1	1	18	Constitutional Syphilis
	..	1	..	3	..	1	..	3	..	2	2	54	Phthisis
	..	2	..	..	..	..	..	..	..	1	1	6	Mesenteric Disease
	..	..	..	..	..	..	..	..	..	..	..	19	Disease of Heart
	1	..	..	..	..	..	..	..	1	..	2	5	Insanity
	3	8	..	..	..	1	2	9	2	9	..	112	Bronchitis
	7	3	1	1	2	3	..	3	1	1	2	48	Influenza and Catarrh
	..	1	..	..	..	..	..	1	..	..	..	5	Pleurisy
	..	..	..	..	..	..	1	1	..	..	1	6	Pneumonia
	..	7	..	..	3	1	..	1	1	..	2	51	Dyspepsia
	..	..	..	..	..	..	1	..	..	..	..	2	Kidney Disease
	..	2	..	1	..	..	1	..	..	..	1	17	Neuralgic Affections
	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
	..	..	..	..	..	..	..	..	..	1	..	6	Ophthalmia
	9	78	10	2	3	3	3	31	2	45	..	556	Accidents and diseases not classified
	23	110	14	7	9	16	9	65	7	63	17	1006	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) " EVAN THOMAS,
(6) " J. BROADBENT,

(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD, Mr. J. S. DAVIES,
(10) (11) (12) " W. J. MALLETT, " H. RUNCORN,

(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) " J. TEALE,
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(22) Mr. H. M. WILLIAMSON.

(23) Mr. W. B. MIDWOOD,
(24) " JOHN RAYNER,
(25) " J. M. KIRKMAN.
(26) " N. PICKFORD,
(27) " J. V. L. WESTMACOTT

|| Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	..	..	..	..	..	..	..	..	..	1	1
Scarlatina	..	..	..	1	..	..	..	..	..	..	1	1
Diarrhœa	..	..	..	..	..	..	..	..	1	..	1	3½
Fever	..	1	..	1	1	..	1	1	2	2	9	7
Diseases of the Lungs	8	6	..	2	..	*7	6	5	14	2	50	52
Other causes	11	8	24	8	16	11	12	7	12	4	113	124
TOTAL NO. OF DEATHS.	20	15	24	12	17	18	19	13	29	8	175	188½
TOTAL NO. OF BIRTHS.	41	33	23	20	24	28	24	36	57	18	304	318

* 1 Inquest.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 23rd February.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	TOTAL.	DISEASES.	4 Weeks ending 23rd February.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	TOTAL.
2	2	..	4	.... Small-pox	9	5	8	22
6	4	9	19	.... Chicken-pox	2	10	2	14
9	17	22	48	..... Measles	21	14	19	54
13	14	10	37	.... Scarlatina ...	11	7	6	24
3	5	5	13	.... Diphtheria	3	..	1	4
67	67	85	219	.. Whooping-cough ..	41	55	53	149
3	1	..	4	..... Croup	4	4	5	13
197	234	190	621	.....Diarrhœa.. ...	91	119	80	290
5	5	2	12	.... Dysentery	18	14	22	54
....	..	..	..	..... Cholera	....	..	1	1
18	21	18	57	.... Erysipelas	45	38	19	102
....	1	..	1	.. Puerperal Fever ..	2	3	3	8
16	29	13	58	..... Insanity	38	40	33	111
1062	876	641	2579	Bronchitis and Catarrh	974	992	869	2835
14	11	18	43	..... Pleurisy	13	16	11	40
22	28	18	68	... Pneumonia	23	35	27	85
6	12	3	21	.... Carbuncle	9	5	6	20
3468	4031	3450	10949	Accidents, and all other Diseases	2896	3576	3100	9572
4911	5358	4484	14753	..... TOTAL	4200	4933	4265	13398

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, MAY 25, 1861. [No. 43.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	NO RETURN.
Mean @ 32° F.	—	30·019	30·016	—	30·039	
Highest (Unreduced)	—	30·372	30·356	—	30·430	
Lowest (Unreduced)	—	29·572	29·610	—	29·600	
Range	—	0·800	0·746	—	0·830	
Temperature.						
Adopted Mean	52·8	55·5	55·1	53·9	53·0	
Range for Week	21·0	31·2	34·2	30·6	27·2	
Daily Range	12·7	19·0	20·3	19·7	14·8	
Maximum in Shade	66·0	72·2	72·4	70·4	66·0	
Minimum in Shade	45·0	41·0	38·2	39·8	38·8	
Maximum in Sun	—	87·0	83·0	87·8	81·5	
Maximum in Sun: Black bulb in Vacuo	—	103·8	—	—	—	
Minimum on Grass	—	36·8	30·0	37·0	37·0	
Temperature in Ground at surface	—	51·38	52·98	—	—	
Temperature 6 inches below	—	51·33	54·20	—	—	
Temperature 12 inches below	—	52·12	55·28	—	—	
Temperature of Evaporation	49·7	51·7	49·6	—	51·0	
Temperature of Dew Point	46·7	48.1	44·3	—	49·0	
Temperature of Air—Dew Point	6·1	7·4	10·8	—	4·0	
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	
Weight of Vapour in a cubic foot of Air	3·63	3·79	3·27	—	3·90	
Required to Saturate do	0·93	1·16	1·64	—	0·60	
Weight of a cubic foot of Air	542·9	539·0	539·8	—	541·9	
Degree of Humidity (Saturation—1,000)	0·802	0·767	0·676	—	0·860	
	INS.	INS.	INS.	INS.	INS.	
Water in a vertical column of the Atmosphere	4·41	4·65	4·04	—	4·80	
Elastic force of Vapour	0·319	0·336	0·292	—	0·347	
Clouds (Covered—10 Clear—0)	—	7·3	4·3	—	6·5	
Prevailing Winds	—	S.W.	N.W.	—	W.&N.W.	
Rain	—	0·122	0·210	0·030	0·332	
Days on which it fell	—	2	3	1	3	
Ozonometer.						
Moffat (0—10)	—	0·14	—	—	2·93	
Schonbein (0—10)	—	0·00	—	—	—	
	INS.	INS.	INS.	INS.	INS.	
Daily Evaporation	0·082	0·105	0·142	—	0·056	
Weekly Evaporation	0·574	0·735	0·994	—	0·392	

There were 2 barometric oscillations during the week, the amount being 0·893 inches. There were 2 temperature oscillations, the amount being 26·5°.

The mean temperature of the week was 1·0° above the average of the last twelve years.

It will be seen that the mean temperature was higher in the country than in the city, owing to the diminished amount of radiation in the latter.

The least degree of humidity occurred at Sale, and the largest at Thelwall. Ozone occurred upon every day at Thelwall, and upon one day only at Old Trafford.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
May 28th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in P

During the We

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	1	..	1	..	3	..
Measles	..	..	..	..	2	2	..	..	..	..	2	..	1	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	1	1	..	..	..	..	..	..	5	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Diarrhœa	..	2	..	..	1	3	..	..	..	..	..	..	3	1
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	1	2	..	..	..	3	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	2	.
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Rheumatism	..	..	..	1	..	1	4	..	4	..	1	1	..	.
Constitutional Syphilis	..	..	..	..	..	..	1	..	6	..	..	..	3	
Phthisis	..	..	..	..	2	2	3	..	33	3	2	1	..	.
Mesenteric Disease	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Disease of Heart	..	..	..	..	1	1	2	..	9	..	..	1	..	.
Insanity	1	..	..	..	..	1	2	..	..	..	..	..	..	.
Bronchitis	1	1	2	2	..	6	14	2	31	1	2	2	14	4
Influenza and Catarrh	..	..	..	3	1	4	2	..	3	..	2	2	2	..
Pleurisy	..	..	..	..	..	..	1	1	2	..	..	..	..	..
Pneumonia.....	..	..	1	..	..	1	..	..	1	..	..	1	1	1
Dyspepsia	..	..	..	..	..	..	..	..	24	3	..	..	..	4
Kidney Disease	..	1	..	..	..	1	..	..	..	1	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Ophthalmia.....	.	..	..	..	..	..	..	..	..	..	..	..	2	1
Accidents and diseases not classified	4	2	1	6	6	19	30	39	243	3	8	6	24	7
Total.....	6	6	4	12	14	42	60	43	360	11	18	15	64	23

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
, *the 25th day of May*, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329.			477.			646.		508.	....	....	.....	Area in Statute Acres.
63,851.			53,470.			35,546		16180	....	....	.....	Population in 1851.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	1	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	3	8	Chicken-pox
..	..	..	..	..	..	..	..	..	..	..	5	Measles
..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	6	..	..	..	13	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	1	Croup
..	..	5	..	..	..	..	1	..	..	2	16	Diarrhœa
..	..	..	..	..	..	1	..	..	..	..	1	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	2	..	..	..	..	1	2	..	..	1	12	Continued Fever
1	..	..	..	..	..	..	..	..	..	..	4	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
2	1	1	..	..	..	1	1	..	1	..	22	Rheumatism
..	..	..	..	1	1	..	1	..	1	1	16	Constitutional Syphilis
..	4	..	1	..	..	..	1	..	2	1	53	Phthisis
..	1	..	..	..	..	..	..	..	1	1	4	Mesenteric Disease
..	1	..	..	..	..	1	..	..	..	..	15	Disease of Heart
2	..	..	..	..	..	1	..	..	..	1	9	Insanity
3	3	..	..	1	2	2	2	..	9	..	100	Bronchitis
2	1	1	1	2	6	2	..	..	..	3	33	Influenza and Catarrh
..	1	..	..	..	..	..	..	..	..	..	5	Pleurisy
..	1	..	..	..	..	..	2	..	..	..	8	Pneumonia
..	2	1	..	3	1	1	1	..	2	1	46	Dyspepsia
..	1	..	..	..	..	..	..	..	..	..	3	Kidney Disease
..	..	..	1	..	..	..	..	..	..	1	3	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
..	..	1	1	..	..	..	..	1	..	..	6	Ophthalmia
7	54	5	2	1	6	3	22	3	37	..	524	Accidents and diseases not classified
17	73	14	6	8	16	13	39	4	53	15	909	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
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|| Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	1	..	..	..	..	..	..	..	..	1	1
Scarlatina	..	..	..	..	..	..	..	..	1	..	1	1
Diarrhœa	1	..	..	..	..	..	2	..	..	..	3	2½
Fever	..	..	..	..	..	..	†1	..	1	..	2	7½
Diseases of the Lungs ..	10	5	..	3	3	*6	2	8	16	1	54	52
Other causes.....	11	7	15	5	9	9	5	6	10	3	80	118
TOTAL NO. OF DEATHS.	22	13	15	8	12	15	10	14	28	4	141	182
TOTAL NO. OF BIRTHS.	22	38	2	21	19	26	19	22	41	25	235	318

* 1 Inquest. † Typhus.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 23rd February.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	TOTAL.	DISEASES.	4 Weeks ending 23rd February.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	TOTAL.
2	2	..	4	.... Small-pox	9	5	8	22
6	4	9	19	.... Chicken-pox	2	10	2	14
9	17	22	48	..... Measles	21	14	19	54
13	14	10	37	.... Scarlatina	11	7	6	24
3	5	5	13	.... Diphtheria	3	..	1	4
67	67	85	219	.. Whooping-cough ..	41	55	53	149
3	1	..	4	..... Croup	4	4	5	13
197	234	190	621	.....Diarrhœa.. ...	91	119	80	290
5	5	2	12	.... Dysentery	18	14	22	54
....	..	..	..	..... Cholera	....	..	1	1
18	21	18	57	.... Erysipelas	45	38	19	102
....	1	..	1	.. Puerperal Fever ..	2	3	3	8
16	29	13	58	..... Insanity	38	40	33	111
1062	876	641	2579	Bronchitis and Catarrh	974	992	869	2835
14	11	18	43	..... Pleurisy	13	16	11	40
22	28	18	68	... Pneumonia	23	35	27	85
6	12	3	21	.... Carbuncle	9	5	6	20
3468	4031	3450	10949	{ Accidents, and all other Diseases }	2896	3576	3100	9572
4911	5358	4484	14753	..... TOTAL	4200	4933	4265	13398

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, JUNE 1, 1861. [No. 44.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	NO RETURN.
Mean @ 32° F.	—	29·857	29·853	—	29·869	
Highest (Unreduced)	—	30·138	30·136	—	30·160	
Lowest (Unreduced)	—	29·699	29·732	—	29·740	
Range	—	0·439	0·404	—	0·420	
Temperature.						
Adopted Mean	52·6	53·9	54·3	53·2	53·4	
Range for Week	20·0	32·8	38·8	32·4	30·0	
Daily Range	12·8	21·6	26·2	21·9	19·7	
Maximum in Shade	66·0	72·0	73·5	72·0	68·0	
Minimum in Shade	46·0	39·2	34·7	39·6	38·0	
Maximum in Sun	—	86·4	82·8	86·7	81·5	
Maximum in Sun: Black bulb in Vacuo	—	101·0	—	—	—	
Minimum on Grass	—	34·0	25·8	36·0	34·5	
Temperature in Ground at surface	—	50·73	52·08	—	—	
Temperature 6 inches below	—	51·04	53 24	—	—	
Temperature 12 inches below	—	52·53	55·34	—	—	
Temperature of Evaporation	48·4	49·9	49·2	—	50·1	
Temperature of Dew Point	44·2	46·0	44·2	—	46·8	
Temperature of Air—Dew Point	8·4	7·9	10·1	—	6·6	
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	
Weight of Vapour in a cubic foot of Air	3·32	3·49	3·31	—	3·59	
Required to Saturate do	1·20	1·19	1·45	—	0·99	
Weight of a cubic foot of Air	539·6	538·1	537·7	—	539·0	
Degree of Humidity (Saturation—1,000)	0·734	0·749	0·685	—	0·782	
	INS.	INS.	INS.	INS.	INS.	
Water in a vertical column of the Atmosphere	4·01	4·30	4·01	—	4·44	
Elastic force of Vapour	0·290	0·311	0·290	—	0·321	
Clouds (Covered—10 Clear—0)	—	5·5	5·3	—	4·5	
Prevailing Winds	—	S.W.	S.W.	—	W.	
Rain	—	0·653	0·440	0·490	0·402	
Days on which it fell	—	4	4	3	4	
Ozonometer.						
Moffat (0—10)	—	1·07	—	—	2·57	
Schonbein (0—10)	—	0·79	—	—	—	
	INS.	INS.	INS.	INS.	INS.	
Daily Evaporation	0·107	0·105	0·132	—	0·088	
Weekly Evaporation	0·749	0·735	0·924	—	0·616	

There were 5 barometric oscillations during the week, the amount being 1·126 inches. There were 3 temperature oscillations, the amount being 20·4°.

The mean temperature of the week was 1·9° below the average of the last twelve years.

The temperature in the city has been less than that of the country, the mean temperature at the Royal Infirmary being the lowest, and that at Sale the highest.

The humidity was the least at Sale, and the highest at Thelwall.

Ozone occurred upon every day at Thelwall, but only upon one day at Old Trafford.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
June 5th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in P

During the W

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	1	..	..	..	..	1	..	..	..	..	..	..	..	..
Measles	..	..	..	..	3	3	..	..	..	..	3	..	..	1
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	9	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	1	..	..	1	1	1	1	..	1	..	4	1
Dysentery	..	1	2	..	..	3	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	2	..
Continued Fever	..	1	1	2	..	4	..	2	..	..	..	..	..	..
Erysipelas	..	..	..	..	..	..	1	..	1	..	..	1	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	2	..	1	..	..	3	4	3	15	2	2	5	..	1
Constitutional Syphilis	..	..	..	..	..	..	7	..	4	..	..	1	1	..
Phthisis	1	1	..	2	2	6	4	..	22	4	5	3	..	..
Mesenteric Disease	..	..	..	..	1	1	..	..	..	..	..	..	2	..
Disease of Heart	1	..	..	..	..	1	1	1	8	1	1	1	1	..
Insanity	..	1	..	..	1	2	4	..	..	..	..	..	..	..
Bronchitis	1	1	..	2	2	6	16	..	37	6	2	9	5	4
Influenza and Catarrh	..	..	..	2	6	8	4	..	19	1	..	1	2	3
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Dyspepsia	..	..	..	..	2	2	3	1	42	..	1	2	2	1
Kidney Disease	..	..	..	..	..	..	1	..	2	..	1	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	8	..	..	1	2	1
Carbuncle	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	..	..	1	..	..	..	1	..
Accidents and diseases not classified	5	12	6	5	9	37	44	23	219	6	13	8	35	8
Total	11	17	11	13	26	78	91	31	379	20	29	32	67	21

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
, *the* 1*st day of June*, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
.1,329.			.... 477.			.. 646.		508	....	....	.....	Area in Statute Acres.
63,851.			.. 53,470.			.. 35,546		16180	....	....	.....	Population in 1851.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	1	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	1	2	Chicken-pox
..	..	..	..	..	1	..	1	1	..	..	10	Measles
..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	..	..	..	..	..	..	1	..	1	Diphtheria
..	..	..	..	..	3	..	4	..	..	..	17	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
1	1	2	..	..	..	..	1	..	1	2	21	Diarrhœa
..	1	1	..	..	..	..	..	..	..	..	5	Dysentery
..	..	..	..	..	..	..	..	..	..	..	2	Cholera
..	1	..	..	..	3	..	2	..	3	2	17	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	3	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	3	..	1	..	..	..	1	..	1	3	44	Rheumatism
..	..	..	..	..	..	..	1	..	..	1	15	Constitutional Syphilis
..	3	..	1	2	..	..	5	..	1	1	57	Phthisis
..	1	..	1	..	..	..	..	..	..	1	6	Mesenteric Disease
1	..	..	..	..	..	..	..	..	..	1	17	Disease of Heart
2	..	..	..	..	..	..	..	..	..	..	9	Insanity
2	5	1	..	1	4	1	4	..	8	2	117	Bronchitis
2	7	3	1	..	5	1	..	..	1	..	58	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	1	..	1	Pleurisy
..	1	..	..	..	..	..	..	..	..	..	2	Pneumonia
..	6	..	..	2	2	..	1	..	4	1	70	Dyspepsia
..	1	..	..	..	..	..	..	..	..	..	5	Kidney Disease
..	1	..	..	..	..	..	..	..	..	1	15	Neuralgic Affections
..	1	1	..	..	..	..	1	..	..	..	4	Carbuncle
..	..	1	..	..	..	..	1	..	..	..	4	Ophthalmia
10	82	9	1	3	6	5	26	3	33	..	577	Accidents and diseases not classified
18	114	18	5	8	24	7	48	4	55	16	1080	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD, Mr. J. S. DAVIES,
(10) (11) ,, W. J. MALLETT,
(12) ,, H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) ,, J. TEALE,
(16) ,, T. F. BROWNBILL
(17) ,, T. F. BROWNBILL
(18) Mr. J. O. BRADBURY,
(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) ,, JOHN RAYNER,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, J. V. L. WESTMACOTT

‖ Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowen.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	4	..	..	..	..	..	..	..	..	5	1
Scarlatina	..	2	..	..	..	..	..	..	..	..	2	1
Diarrhœa	1	1	1	1	..	..	4	..	1	..	9	2
Fever	..	1	..	..	1	..	..	1	..	1	4	7
Diseases of the Lungs	5	7	..	2	5	*10	2	3	12	4	50	54
Other causes	9	9	29	5	11	8	15	10	21	7	124	105
TOTAL NO. OF DEATHS.	16	24	30	8	17	18	21	14	34	12	194	170
TOTAL NO. OF BIRTHS.	53	53	33	21	30	39	33	42	64	22	390	301

* 2 Inquests.

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In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

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2	2	..	4	.... Small-pox	9	5	8	22
6	4	9	19	.... Chicken-pox	2	10	2	14
9	17	22	48	..... Measles	21	14	19	54
13	14	10	37	.... Scarlatina	11	7	6	24
3	5	5	13	.... Diphtheria	3	..	1	4
67	67	85	219	.. Whooping-cough ..	41	55	53	149
3	1	..	4	..... Croup	4	4	5	13
197	231	190	621	.....Diarrhœa.. ...	91	119	80	290
5	5	2	12	.... Dysentery	18	14	22	54
....	..	..	..	..... Cholera	....	..	1	1
18	21	18	57	.... Erysipelas	45	38	19	102
....	1	..	1	.. Puerperal Fever ..	2	3	3	8
16	29	13	58	..... Insanity	38	40	33	111
1062	876	641	2579	Bronchitis and Catarrh	974	992	869	2835
14	11	18	43	..... Pleurisy	13	16	11	40
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WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, JUNE 8, 1861. [No. 45.

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Barometer.	INS.	INS.	INS.	INS.	INS.	NO RETURN.
Mean @ 32° F.	—	29·904	29·906	—	29·923	
Highest (Unreduced)	—	30·072	30·080	—	30·094	
Lowest (Unreduced)	—	29·770	29·788	—	29·804	
Range	—	0·302	0·292	—	0·290	
Temperature.						
Adopted Mean	52·0	53·5	53·2	53·6	52·4	
Range for Week	19·0	21·0	26·2	28·2	24·8	
Daily Range	9·3	12·2	14·0	15·9	13·0	
Maximum in Shade	67·0	65·0	67·0	71·0	66·8	
Minimum in Shade	48·0	44·0	40·8	42·8	42·0	
Maximum in Sun	—	99·8	84·2	88·4	80·0	
Maximum in Sun: Black bulb in Vacuo	—	104·0	—	—	—	
Minimum on Grass	—	39·5	30·8	40·0	38·5	
Temperature in Ground at surface	—	51·29	52·93	—	—	
Temperature 6 inches below	—	51·72	53 92	—	—	
Temperature 12 inches below	—	52·82	52·41	—	—	
Temperature of Evaporation	48·9	49·5	49·4	—	49·6	
Temperature of Dew Point	45·7	45·5	45·6	—	45·8	
Temperature of Air—Dew Point	6·3	8·0	7·6	—	6·6	
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	
Weight of Vapour in a cubic foot of Air	3·48	3·45	3·46	—	3·48	
Required to Saturate do	1·02	1·15	1·08	—	1·10	
Weight of a cubic foot of Air	541·1	539·3	539·7	—	539·7	
Degree of Humidity (Saturation—1,000)	0·794	0·743	0·754	—	0·756	
	INS.	INS.	INS.	INS.	INS.	
Water in a vertical column of the Atmosphere	4·25	4·22	4·23	—	4·26	
Elastic force of Vapour	0·307	0·305	0·306	—	0·308	
Clouds (Covered—10 Clear—0)	—	8·0	6·3	—	6·6	
Prevailing Winds	—	S.W.&N.E	S.W.&N.E	—	N. & N.E.	
Rain	—	0·315	0·270	0·310	0·152	
Days on which it fell	—	4	4	3	4	
Ozonometer.						
Moffat (0—10)	—	0·00	—	—	2·78	
Schonbein (0—10)	—	0·00	—	—	—	
	INS.	INS.	INS.	INS.	INS.	
Daily Evaporation	0·081	0·105	0·100	—	0·086	
Weekly Evaporation	0·567	0·735	0·700	—	0·602	

There were 4 barometric oscillations during the week, the amount being 0·778 inches. There were 6 temperature oscillations, the amount being 18·7°.

The mean temperature of the week was 2·5° below the average of the last twelve years, and 1·7° above the average of the corresponding week last year.

The mean temperature was the lowest at the Royal Infirmary, and the highest at Bowdon. The degree of humidity was the highest at the Royal Infirmary, and the least at Old Trafford.

Ozone occurred upon 6 days at Thelwall, but was not found at Old Trafford during the week.

The fall of rain during May, 1861, at the various stations, has been as follows:—

	Fall in Inches.	Days on which it Fell.
Old Trafford	0·744	10
Sale	0·750	8
Bowdon	0·710	8
Thelwall	0·948	11

This fall was a very small one for May in Manchester, and in only the following years has so small a quantity fallen, viz.:—

	Ins.
1814	0·300
1836	0·670
1839	0·250
1844	0·090
1859	0·452

In all other years since 1786, the fall has been greater.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
June 11th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in P

During the We

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
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Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	1	1	..	..	..	..	..	..	..	..
Scarlatina	..	1	..	..	..	1	..	1	..	..	..	2	..	..
Diphtheria	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Whooping-cough	2	..	..	..	2	5	..	..	1	..	2	..	5	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	1	..	..	..	1	1	..	5	..	..	..	6	..
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	1	1	..	2	4	2	3	22	1	..	..	1	..
Constitutional Syphilis	..	1	..	..	..	1	..	..	6	..	1	..	1	1
Phthisis	..	..	2	..	..	2	4	1	23	2	3	2	1	..
Mesenteric Disease	..	..	..	..	1	1	2	..	..	..	..	..	1	..
Disease of Heart	..	..	..	..	..	..	1	..	9	..	..	..	..	..
Insanity	..	..	..	..	..	..	4	..	..	..	..	..	..	..
Bronchitis	..	..	3	..	2	5	13	1	36	2	5	3	10	3
Influenza and Catarrh	..	1	..	2	1	4	3	..	2	1	..	..	3	..
Pleurisy	..	..	..	..	..	..	..	..	1	..	..	..	1	..
Pneumonia	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Dyspepsia	..	..	..	..	2	2	4	..	36	..	..	..	..	4
Kidney Disease	..	1	..	..	..	1	..	..	2	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	4	1	..	..	..	..
Carbuncle	..	..	..	1	..	1	..	..	..	..	..	..	..	..
Ophthalmia	..	1	..	..	..	1	2	..	..	..	..	..	1	1
Accidents and diseases not classified	5	7	3	2	12	29	55	23	278	15	2	5	30	11
Total	8	14	9	5	23	59	91	30	425	22	13	19	62	22

SANITARY ASSOCIATION.

, and Public Institutions of Manchester and adjoining Districts,
ay, the 8th day of June, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
...1,329.				.... 477.			.. 646.		508.	....	....	.....	Area in Statute Acres.
. 63,851.				.. 53,470.			.. 35,546		16180	....	....	.....	Population in 1851.
LAW ICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 16	Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Ancoats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	1	..	..	..	4	..	..	..	..	..	6	Measles
..	..	..	..	..	..	..	..	..	..	..	..	4	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	..	..	..	..	2	1	5	..	..	..	22	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	1	..	..	..	1	..	1	..	..	2	19	Diarrhœa
..	..	1	..	..	..	..	1	1	..	..	..	4	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	2	2	..	..	..	3	1	2	..	..	..	14	Continued Fever
..	..	..	..	..	..	1	..	..	..	..	..	2	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	..	3	1	..	2	..	1	4	1	1	2	48	Rheumatism
..	..	..	..	..	..	..	..	1	..	2	..	13	Constitutional Syphilis
..	1	3	..	1	..	..	1	..	..	2	2	48	Phthisis
..	..	..	..	..	..	..	..	1	..	..	1	6	Mesenteric Disease
..	2	..	1	..	..	..	..	..	1	..	2	16	Disease of Heart
..	5	1	..	..	..	..	2	..	..	..	..	12	Insanity
..	1	13	..	1	..	5	1	3	2	7	..	121	Bronchitis
..	2	7	2	..	1	2	..	3	..	..	2	32	Influenza and Catarrh
..	..	2	..	..	..	..	..	..	..	..	..	4	Pleurisy
..	..	..	..	..	..	..	..	1	..	..	..	2	Pneumonia
..	..	3	1	..	3	1	..	4	..	..	..	61	Dyspepsia
..	..	1	..	..	..	..	..	..	..	2	1	8	Kidney Disease
..	..	2	..	..	1	..	..	2	1	..	..	11	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
..	..	..	..	..	..	..	..	..	..	1	..	6	Ophthalmia
..	5	59	6	2	5	4	6	30	1	47	1	621	Accidents and diseases not classified
..	18	99	11	4	12	23	14	58	6	62	13	1082	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,

(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD, Mr. J. S. DAVIES,
(10) (11) ,, W. J. MALLETT,
(12) ,, H. RUNCORN,

(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) ,, J. TEALE,
(16) ,, ||
(17) ,, T. F. BROWNBILL

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(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr, H.M. WILLIAMSON.

(23) Mr. W. B. MIDWOOD,
(24) ,, JOHN RAYNER,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, J.V.L. WESTMACOTT

|| Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tushp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	1	..	1	..
Measles	..	1	..	..	..	..	..	..	..	..	1	2
Scarlatina	..	2	..	1	..	..	..	..	..	..	3	1
Diarrhœa	1	..	..	..	..	1	2	..	..	..	4	4
Fever	1	1	1	..	..	..	..	..	..	..	3	7
Diseases of the Lungs	6	4	1	6	7	5	2	*15	9	1	56	52
Other causes	12	6	13	12	11	7	12	6	18	6	103	108
TOTAL NO. OF DEATHS.	20	14	15	19	18	13	16	21	28	7	171	174
TOTAL NO. OF BIRTHS.	57	37	23	39	20	44	27	29	71	19	366	316

* 7 Whooping Cough.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 30th March.	4 Weeks ending 27th April.	4 Weeks ending 25th May.	TOTAL.	DISEASES.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	4 Weeks ending 25th May.	TOTAL.
2	..	2	4	.... Small-pox	5	8	12	25
4	9	10	23	.... Chicken-pox	10	2	11	23
17	22	16	55	..... Measles	14	19	15	48
14	10	9	33	.... Scarlatina	7	6	5	18
5	5	3	13	.... Diphtheria	..	1	1	2
67	85	102	254	.. Whooping-cough ..	55	53	48	156
1	..	1	2	..... Croup	4	5	4	13
234	190	219	643	.....Diarrhœa.. ...	119	80	68	267
5	2	3	10	.... Dysentery	14	22	10	46
..	..	....	..	..... Cholera	..	1	....	1
21	18	20	59	.... Erysipelas	38	19	14	71
1	..	....	1	.. Puerperal Fever ..	3	3	1	7
29	13	23	65	..... Insanity	40	33	38	111
876	641	601	2118	Bronchitis and Catarrh	992	869	662	2523
11	18	11	40	..... Pleurisy	16	11	16	43
28	18	14	60	... Pneumonia	35	27	25	87
12	3	1	16	.... Carbuncle	5	6	3	14
4031	3450	3417	10898	Accidents, and all other Diseases	3576	3100	3047	9723
5358	4484	4452	14294	..... TOTAL	4933	4265	3980	13178

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER:

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, JUNE 15, 1861. [No. 46.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·890	29·890	—	29·892	—
Highest (Unreduced)	—	30·145	30·186	—	30·168	—
Lowest (Unreduced)	—	29·682	29·706	—	29·706	—
Range	—	0·463	0·480	—	0·462	—
Temperature.						
Adopted Mean	59·3	61·6	61·2	60·0	60·6	56·3
Range for Week	33·0	34·8	34·0	42·8	33·7	32·0
Daily Range	15·6	19·3	17·4	19·7	18·6	16·5
Maximum in Shade	82·0	84·0	81·8	90·2	81·0	78·0
Minimum in Shade	49·0	49.2	47·8	47·4	47·3	46·0
Maximum in Sun	—	110·0	94·5	101·4	92·0	86·0
Maximum in Sun: Black bulb in Vacuo	—	122·0	—	—	—	—
Minimum on Grass	—	47·0	40·5	47·8	47·3	44·5
Temperature in Ground at surface	—	55·37	60·65	—	—	—
Temperature 6 inches below	—	54·44	57 00	—	—	51·30 (a)
Temperature 12 inches below	—	54·42	57·65	—	—	52·63 (b)
Temperature of Evaporation	55·8	56·5	56·4	—	55·2	—
Temperature of Dew Point	52·7	52·1	52·3	—	50·5	—
Temperature of Air—Dew Point	6·6	9·5	8·9	—	10·1	—
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·48	4·33	4·38	—	4·10	—
Required to Saturate do	1·18	1·79	1·66	—	1·82	—
Weight of a cubic foot of Air	532·6	530·2	530·6	—	531·2	—
Degree of Humidity (Saturation—1,000)	0·793	0·715	0·730	—	0·690	—
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	5·52	5·38	5·44	—	5·08	—
Elastic force of Vapour	0·399	0·389	0·393	—	0·367	—
Clouds (Covered—10 Clear—0)	—	4·8	3·7	—	4·3	6·0
Prevailing Winds	—	S.W.&S.E	S.W.&S.E	—	S. & S. E.	S. W. & E.
Rain	—	0·458	0·450	0·340	0·401	0·139
Days on which it fell	—	3	4	2	4	2
Ozonometer.						
Moffat (0—10)	—	0·57	—	—	5·35	6·71
Schonbein (0—10)	—	0·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·106	0·159	0·148	—	0·162	—
Weekly Evaporation	0·742	1·113	1·036	—	1·134	—

(a) 4 Feet below the surface. *(b)* 3 Feet below the surface.

There were 8 barometric oscillations during the week, the amount being 0·877 inches. There were 6 temperature oscillations during the week, the amount being 37·6°.

The mean temperature of the week was 3·7° above the average of the corresponding week for twelve years, and 6·6° above the same week last year.

The mean temperature was the least at Ollerenshaw, and the highest at Old Trafford.

The degree of humidity was the lowest at Thelwall, and the highest at the Royal Infirmary.

Ozone occurred upon 1 day at Old Trafford, and upon 7 each at Thelwall and Ollerenshaw.

The amount of rain during the week appears to have diminished as the height above the sea increased.

Old Trafford, Manchester,
June 18th, 1861.

G. V. VERNON, F.R.A.S.

MANCHESTER AND

New Cases of Disease coming under Treatment in Pa

During the Wee

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	2	..	..	..	1	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	1	2	3	..	..	..	..	..	..	1	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	2	..	2	3	1	..	6	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Diarrhœa	1	..	2	..	1	4	1	1	1	..	..	..	6	1
Dysentery	..	..	1	..	..	1	..	..	..	..	..	..	1	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	2	..	2	1	3	..	..	..	2	6	1
Erysipelas	..	..	..	..	..	..	..	..	1	2	..	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	1	1	..	..	..	2	12	4	11	4	2	3	..	..
Constitutional Syphilis	..	..	..	..	..	..	5	..	5	..	..	1	..	2
Phthisis	1	2	..	1	..	4	8	..	23	1	1	4	1	1
Mesenteric Disease	..	..	..	..	1	1	..	..	..	..	..	..	..	..
Disease of Heart	..	..	..	..	..	..	2	..	6	..	..	1	..	..
Insanity	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis	1	1	3	1	1	7	16	2	32	2	1	5	5	3
Influenza and Catarrh	..	..	..	2	1	3	7	..	8	..	..	..	6	..
Pleurisy	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Pneumonia.....	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Dyspepsia	2	..	..	..	..	2	..	..	17	..	..	1	1	1
Kidney Disease	..	..	..	..	..	..	2	..	..	..	..	..	..	1
Neuralgic Affections	..	1	..	..	..	1	..	..	4	..	..	..	2	3
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	..	..	..	..	1	1	4	..	1	..	..	..	3	1
Accidents and diseases not classified	4	6	3	..	7	20	53	31	276	11	..	8	33	10
Total.....	10	11	9	7	14	51	113	43	387	24	6	27	72	25

SANITARY ASSOCIATION.

e, and Public Institutions of Manchester and adjoining Districts,
ay, the 15th day of June, 1861.

	SALFORD.			HULME.			CHORLTON.		ARDWICK				
Area in Statute Acres.	....1,329.....			.... 477....			.. 646..		508	....	....	.....	
Population in 1851.	.. 63,851.			.. 53,470. ..			.. 35,546..		16180	....	....	.....	
	Law Districts	Public Institutions.		Poor Law Districts.									
DISEASES.	16 Regent Road.	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Work-house.	Total.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	3
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	3	..	1	..	..	..	8
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	1
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	1	..	..	..	3	1	6	..	..	..	25
Croup	..	..	..	..	..	..	..	..	..	..	..	..	1
Diarrhœa	..	1	2	4	..	1	..	..	2	..	..	2	28
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	2
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	..	..	..	1	..	3	..	4	1	25
Erysipelas	..	1	..	..	..	..	..	..	..	..	..	..	5
Puerperal Fever	..	1	..	..	..	..	..	..	..	..	..	..	1
Rheumatism	..	..	5	1	..	..	2	..	2	2	1	2	53
Constitutional Syphilis	..	..	1	..	..	..	..	..	1	..	..	1	16
Phthisis	..	..	3	..	2	..	1	..	2	..	7	1	60
Mesenteric Disease	..	..	..	..	..	..	..	1	..	..	..	..	2
Disease of Heart	..	..	1	..	1	..	..	..	..	..	..	1	12
Insanity	..	1	..	..	..	1	..	..	..	..	..	2	5
Bronchitis	..	4	9	..	1	..	1	..	2	1	7	..	99
Influenza and Catarrh	..	..	14	6	..	2	5	1	2	..	..	1	57
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	1
Pneumonia	..	..	..	..	..	..	..	..	..	..	..	..	1
Dyspepsia	..	..	7	1	..	..	1	..	4	1	1	..	37
Kidney Disease	..	..	..	..	..	1	..	..	..	..	..	..	4
Neuralgic Affections	..	..	3	..	1	..	..	..	2	..	..	1	19
Carbuncle	..	..	..	..	1	..	..	..	..	..	..	..	1
Ophthalmia	..	..	..	1	..	..	..	..	1	..	..	..	12
Accidents and diseases not classified	..	6	70	10	2	3	3	3	30	2	56	..	631
Total	..	14	117	23	8	8	20	6	58	6	76	12	1109

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnship., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	1	..	..	..	..	..	..	..	..	..	1	..
Measles	1	1	..	..	..	..	..	..	..	..	2	2
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	2
Diarrhœa	1	..	..	..	..	2	..	2	1	1	7	4
Fever	2	..	..	2	2	1	3	1	2	..	13	4½
Diseases of the Lungs	5	5	..	4	1	5	7	4	10	..	41	52½
Other causes	*24	16	30	5	11	6	11	14	12	5	134	105
TOTAL NO. OF DEATHS.	34	22	30	11	14	14	21	21	25	6	198	170
TOTAL NO. OF BIRTHS.	57	39	17	15	21	36	20	35	58	20	318	323

* 8 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 30th March.	4 Weeks ending 27th April.	4 Weeks ending 25th May.	TOTAL.	DISEASES.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	4 Weeks ending 25th May.	TOTAL.
2	..	2	4	Small-pox	5	8	12	25
4	9	10	23	Chicken-pox	10	2	11	23
17	22	16	55	Measles	14	19	15	48
14	10	9	33	Scarlatina	7	6	5	18
5	5	3	13	Diphtheria	..	1	1	2
67	85	102	254	Whooping-cough	55	53	48	156
1	..	1	2	Croup	4	5	4	13
231	190	219	643	Diarrhœa	119	80	68	267
5	2	3	10	Dysentery	14	22	10	46
..	..	....	..	Cholera	..	1	....	1
21	18	20	59	Erysipelas	38	19	14	71
1	..	....	1	Puerperal Fever	3	3	1	7
29	13	23	65	Insanity	40	33	38	111
876	641	601	2118	Bronchitis and Catarrh	992	869	662	2523
11	18	11	40	Pleurisy	16	11	16	43
28	18	14	60	Pneumonia	35	27	25	87
12	3	1	16	Carbuncle	5	6	3	14
4031	3450	3417	10898	Accidents, and all other Diseases	3576	3100	3047	9723
5358	4484	4452	14294	TOTAL	4933	4265	3980	13178

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, JUNE 22, 1861. [No. 47.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw, A. NEILD, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·842	29·882	—	29·890	29·035
Highest (Unreduced)	—	30·070	30·082	—	30·100	29·236
Lowest (Unreduced)	—	29·725	29·764	—	29·744	28·962
Range	—	0·345	0·318	—	0·356	0·274
Temperature.						
Adopted Mean	60·8	63·3	61·1	65·5	60·1	58·9
Range for Week	26·0	35·0	35·2	45·0	33·3	32·3
Daily Range	16·7	23·1	24·6	30·4	20·2	20·7
Maximum in Shade	78·0	84·0	81·0	90·3	78·8	77·0
Minimum in Shade	52·0	49·0	45·8	45·3	45·5	44·7
Maximum in Sun	—	108·0	96·8	98·2	91·3	90·0
Maximum in Sun: Black bulb in Vacuo	—	120·0	—	—	—	—
Minimum on Grass	—	45·8	35·0	45·0	41·6	36·0
Temperature in Ground at surface	—	58·79	62·21	—	—	—
Temperature 6 inches below	—	58·91	61 26	—	—	56·27 (a)
Temperature 12 inches below	—	59·54	62·58	—	—	54·44 (b)
Temperature of Evaporation	57·5	57·8	56·9	—	56·9	—
Temperature of Dew Point	54·7	53·2	53·2	—	54·2	—
Temperature of Air—Dew Point	6·1	10·1	7·9	—	5·9	—
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·82	4·51	4·55	—	4·66	—
Required to Saturate do	1·14	2·43	1·47	—	1·16	—
Weight of a cubic foot of Air	529·8	527·6	530·5	—	531·6	—
Degree of Humidity (Saturation—1,000)	0·810	0·698	0·760	—	0·809	—
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	5·92	8·05	5·61	—	5·82	—
Elastic force of Vapour	0·428	0·582	0·406	—	0·421	—
Clouds (Covered—10 Clear—0)	—	5·4	2·9	—	—	5·5
Prevailing Winds	—	S. W. & E.	S.W. & E.	—	S. E. & W.	E. & N. E.
Rain	—	0·490	0·480	0·730	1·138	1·265
Days on which it fell	—	3	4	3	4	3
Ozonometer.						
Moffat (0—10)	—	0·00	—	—	3·19	5·90
Schonbein (0—10)	—	0·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·105	0·176	0·133	—	0·099	—
Weekly Evaporation	0·735	1·232	0·931	—	0·693	—

(a) 3 Feet below the surface. *(b)* 4 Feet below the surface.

There were 5 barometric oscillations during the week, the amount being 0·448 inches. There were also 3 temperature oscillations, the amount being 22·0°.

The mean temperature of the week was 4·7° below the average of the last twelve years, 6·7° above the corresponding week last year.

The mean temperature was the highest at Bowdon, and the least at Ollerenshaw.

The greatest degree of humidity occurred at the Royal Infirmary, and the least at Old Trafford.

The fall of rain was much larger at some distance from Manchester than near the city. Thunder and lightning occurred upon the 21st and 22nd.

Ozone was found upon every day at Thelwall and Ollerenshaw, but on no day at Old Trafford.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
June 26th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in Pa

During the Wee

	MANCHESTER.													
Area in Statute Acres	..... Manchester Township 1,645													
Population in 1851	..... " " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlatina	..	2	..	..	..	2	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	7	1
Croup	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	1	..	1	1	..	1	2	..	2	5	4
Dysentery	..	..	2	..	..	2	1	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	1	1	3	..	2	..	..	..	..	10	..
Erysipelas	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	2	1	..	3	2	2	21	..	1	..	1	..
Constitutional Syphilis	..	..	..	..	1	1	2	..	4	..	1	..	2	2
Phthisis	..	1	..	..	2	3	1	1	21	2	3	4	3	1
Mesenteric Disease	..	1	1	..	1	3	..	..	..	..	..	..	..	..
Disease of Heart	..	..	..	1	..	1	..	..	4	2	1	1	..	..
Insanity	..	..	1	..	..	1	3	..	..	..	..	..	..	..
Bronchitis	1	1	2	2	..	6	9	1	41	4	2	..	6	2
Influenza and Catarrh	..	..	..	..	..	..	3	..	5	1	1	..	6	2
Pleurisy	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Pneumonia.....	..	..	..	..	..	..	..	..	..	..	1	..	2	..
Dyspepsia	1	..	..	..	2	3	3	..	15	3	1	..	..	..
Kidney Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	2	..	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	..	..	1	1	..	2	2	..	..	..	..	..	4	1
Accidents and diseases not classified	7	3	5	6	7	28	63	32	259	5	4	14	36	10
Total.....	9	8	16	13	14	60	90	39	373	20	15	22	83	23

Erratum.—In last week's Return, No. 2 District, Royal Infirmary, there were three unclassified cases omitt

SANITARY ASSOCIATION.

, and Public Institutions of Manchester and adjoining Districts,
y, the 22nd day of June, 1861.

	SALFORD.			HULME.			CHORLTON.		ARDWICK				
	..1,329.			.... 477.			.. 646..		508.	....	....	.....	Area in Statute Acres.
	63,851.			.. 53,470.			.. 35,546..		16180	....	....	.....	Population in 1851.
	AW CTS	PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS.									
	Regent Road. 16	Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Ancoats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
	..	..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
	..	..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox
	..	..	1	..	..	..	..	..	..	..	..	..	1	Measles
	..	..	..	..	..	..	..	..	..	..	..	..	2	Scarlatina
	..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
	..	..	1	..	..	..	2	..	9	..	1	..	21	Whooping-cough
	..	..	..	..	..	..	..	..	..	..	..	..	1	Croup
	..	3	2	..	..	2	..	..	2	..	..	4	31	Diarrhœa
	..	..	..	..	..	..	1	..	..	..	..	..	4	Dysentery
	..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
	..	..	2	..	..	..	..	..	5	..	3	1	27	Continued Fever
	..	..	..	..	..	..	1	..	..	..	..	..	2	Erysipelas
	1	..	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever
	..	4	2	..	1	1	..	2	2	..	..	..	43	Rheumatism
	..	..	..	..	..	..	..	..	..	..	1	..	13	Constitutional Syphilis
	..	11	..	..	..	..	..	2	..	..	1	1	55	Phthisis
	..	..	..	..	..	..	..	..	..	..	..	..	3	Mesenteric Disease
	..	..	..	..	..	..	..	..	..	..	..	1	10	Disease of Heart
	2	..	..	..	..	..	..	..	..	..	..	2	8	Insanity
	3	12	..	1	..	1	..	2	..	..	1	1	92	Bronchitis
	2	5	7	..	3	5	..	..	..	..	2	1	43	Influenza and Catarrh
	..	..	..	..	..	..	..	..	..	..	..	..	1	Pleurisy
	..	1	..	..	..	..	..	..	..	..	..	..	4	Pneumonia
	1	3	3	..	1	1	..	4	..	..	..	..	41	Dyspepsia
	..	..	..	..	..	..	..	..	..	..	..	..	..	Kidney Disease
	..	3	..	2	..	..	..	..	..	..	..	..	7	Neuralgic Affections
	..	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
	..	1	..	..	..	..	..	..	..	..	..	2	12	Ophthalmia
	5	86	5	..	1	2	2	24	1	53	4		641	Accidents and diseases not classified
	17	132	17	3	8	14	2	50	3	62	17		1065	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) (9) (10) (11) (12) Dr. JOHN MEDD, Mr. J. S. DAVIES, ,, W. J. MALLETT, ,, H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) ,, J. TEALE,
(16) ,, ,,
(17) ,, T. F. BROWNBILL
(18) Mr. J. O. BRADBURY,
(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) ,, JOHN RAYNER,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, J. V. L. WESTMACOTT

|| Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	½
Measles	1	1	..	..	..	..	..	..	..	..	2	2
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1½
Diarrhœa	5	..	1	..	1	..	3	2	..	..	12	6
Fever	1	1	2	1	..	1	1	1	1	..	9	5½
Diseases of the Lungs	6	5	..	1	3	2	1	6	8	1	33	50
Other causes	12	6	27	6	5	4	11	11	7	12	101	110
TOTAL NO. OF DEATHS.	25	13	30	8	9	7	16	20	16	*13	157	175½
TOTAL NO. OF BIRTHS.	36	36	24	21	19	43	19	29	55	12	294	327

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2	..	2	4	.... Small-pox	5	8	12	25
4	9	10	23	.... Chicken-pox	10	2	11	23
17	22	16	55	..... Measles	14	19	15	48
14	10	9	33	.... Scarlatina	7	6	5	18
5	5	3	13	.... Diphtheria	..	1	1	2
67	85	102	254	.. Whooping-cough ..	55	53	48	156
1	..	1	2	..... Croup	4	5	4	13
234	190	219	643	.....Diarrhœa.. ...	119	80	68	267
5	2	3	10	.... Dysentery	14	22	10	46
..	..	....	..	..... Cholera	..	1	....	1
21	18	20	59	.... Erysipelas	38	19	14	71
1	..	....	1	.. Puerperal Fever ..	3	3	1	7
29	13	23	65	..... Insanity	40	33	38	111
876	641	601	2118	Bronchitis and Catarrh	992	869	662	2523
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Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·621	29·642	—	29·651	28·768
Highest (Unreduced)	—	29·908	29·964	—	30·036	28·992
Lowest (Unreduced)	—	29·531	29·562	—	29·514	28·712
Range	—	0·377	0·402	—	0·522	0·280
Temperature.						
Adopted Mean	58·9	60·6	59·6	62·0	58·7	58·5
Range for Week	19·0	26·5	31·0	32·5	22·3	26·2
Daily Range	11·0	17·1	20·0	23·3	13·8	17·0
Maximum in Shade	72·0	75·0	77·0	80·0	69·8	73·2
Minimum in Shade	53·0	48·5	46·0	47·5	47·5	47·0
Maximum in Sun	—	94·8	89·5	93·6	89·0	88·1
Maximum in Sun: Black bulb in Vacuo	—	111·2	—	—	—	—
Minimum on Grass	—	44·8	34·0	47·8	45·5	44·0
Temperature in Ground at surface	—	58·18	60·00	—	—	—
Temperature 6 inches below	—	58·54	59·54	—	—	57·18 *(a)*
Temperature 12 inches below	—	59·54	61·30	—	—	55·70 *(b)*
Temperature of Evaporation	55·8	56·9	56·0	—	56·0	—
Temperature of Dew Point	53·0	53·7	53·8	—	53·6	—
Temperature of Air—Dew Point	5·9	6·9	5·8	—	5·1	—
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·46	4·61	4·48	—	4·56	—
Required to Saturate do	1·12	1·31	1·24	—	0·98	—
Weight of a cubic foot of Air	528·0	526·2	527·6	—	528·7	—
Degree of Humidity (Saturation—1,000)	0·813	0·784	0·790	—	0·828	—
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	5·57	5·71	5·74	—	5·70	—
Elastic force of Vapour	0·403	0·413	0·415	—	0·412	—
Clouds (Covered—10 Clear—0)	—	8·1	2·6	—	7·0	6·1
Prevailing Winds	—	SW. & SE.	SW.SE.NW.	—	NW. & W.	S. & E.
Rain	—	0·884	0·950	1·190	1·373	0·890
Days on which it fell	—	6	6	6	6	6
Ozonometer.						
Moffat (0—10)	—	0·43	—	—	2·80	5·35
Schonbein (0—10)	—	0·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·095	0·116	0·096	—	0·082	—
Weekly Evaporation	0·665	0·812	0·576	—	0·574	—

(a) 3 Feet below the surface. *(b)* 4 Feet below the surface.

There were 6 barometric oscillations during the week, the amount being 1·097 inches. There were 5 temperature oscillations, the amount being 17·1°.

The mean temperature of the week was 0·3° above the mean of the last twelve years, and 4·4° above the corresponding week last year.

The mean temperature was the highest at Bowdon, and the least at Ollerenshaw.

The degree of humidity was the lowest at Old Trafford, and the highest at Thelwall.

The rain during the week appears to have fallen very heavily upon the South-west side of Manchester, judging from the fall at Bowdon and at Thelwall. Violent thunder storms have prevailed round this neighbourhood during the week, especially upon the 23rd and 26th.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
July 2nd, 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pa

During the Week

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
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								Royal Infirmary.					Children	
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Small-pox	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Measles	..	..	1	2	3	6	..	..	..	1	..	..	3	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	2	..	..	1	7	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	4	1	..	3	..	8	4	..	4	..	..	2	6	2
Dysentery	..	..	..	..	..	..	..	1	..	..	..	1	..	..
Cholera	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Continued Fever	1	1	..	1	..	3	..	..	1	..	..	3	8	..
Erysipelas	..	1	..	..	..	1	..	..	..	1	1	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	1	1	1	2	5	1	1	12	..	2	1	..	..
Constitutional Syphilis	..	..	..	..	..	..	..	..	5	..	..	..	1	1
Phthisis	..	..	..	..	..	..	5	1	18	3	1	3	2	2
Mesenteric Disease	..	..	..	..	1	1	..	..	1	..	..	..	..	..
Disease of Heart	..	..	..	..	..	..	..	1	3	1	..	..	..	..
Insanity	..	..	..	..	..	..	3	1	..	..	..	..	..	..
Bronchitis	..	..	2	2	..	4	7	..	25	4	2	2	6	2
Influenza and Catarrh	..	..	..	..	1	1	1	..	10	1	..	..	1	..
Pleurisy	..	..	..	..	..	..	1	..	2	..	..	..	1	..
Pneumonia	..	..	..	..	..	..	2	..	..	..	..	2	2	2
Dyspepsia	..	..	..	..	1	1	1	2	19	2	..	..	..	..
Kidney Disease	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Neuralgic Affections	..	..	1	..	..	1	..	..	7	2	..	..	2	2
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Accidents and diseases not classified	8	4	..	2	6	20	38	29	276	1	6	12	34	9
Total	13	8	5	11	14	51	63	37	386	16	12	28	75	21

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,
, *the 29th day of June*, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329.			477.			646.		508.	....	....	.....	Area in Statute Acres.
63,851.			53,470.			35,546		16180	....	....	.....	Population in 1851.
AW TS	PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS.									
6	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Anccats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
.	..	..	..	1	..	..	..	..	..	..	..	2	Small-pox
.	..	1	..	..	..	..	..	..	..	..	..	2	Chicken-pox
.	..	..	..	..	..	..	..	..	..	..	..	10	Measles
.	..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
.	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
.	..	..	..	..	..	2	..	3	..	—	..	16	Whooping-cough
	..	..	..	..	..	..	..	..	..	..	..	..	Croup
	1	1	3	..	1	..	2	5	..	2	4	56	Diarrhœa
	..	..	..	..	..	1	..	..	..	..	..	3	Dysentery
	..	..	..	..	..	..	..	..	..	..	..	1	Cholera
	..	4	..	1	1	..	..	3	..	2	2	31	Continued Fever
	..	..	..	..	..	..	..	..	..	..	..	3	Erysipelas
	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
	1	4	1	..	1	..	2	3	..	2	1	37	Rheumatism
	..	..	..	..	..	..	..	1	..	..	..	8	Constitutional Syphilis
	..	5	..	..	..	..	1	1	1	3	2	49	Phthisis
	..	1	..	..	..	..	..	..	..	..	..	3	Mesenteric Disease
	1	2	..	..	..	..	..	..	..	1	1	10	Disease of Heart
	..	..	..	1	..	..	..	..	1	..	3	9	Insanity
	1	10	1	..	..	2	..	3	..	7	1	80	Bronchitis
	2	..	3	..	2	6	..	1	..	1	..	30	Influenza and Catarrh
	..	..	..	..	..	..	..	1	..	..	..	5	Pleurisy
	..	..	..	1	..	..	..	..	..	..	2	11	Pneumonia
	..	8	1	1	3	4	..	2	..	1	..	49	Dyspepsia
	..	..	..	..	..	..	1	..	1	..	1	4	Kidney Disease
	..	3	..	..	..	..	1	..	..	..	..	18	Neuralgic Affections
	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
	..	1	..	..	..	..	..	1	1	..	4	8	Ophthalmia
	6	80	5	1	8	5	6	26	..	57	..	627	Accidents and diseases not classified
	12	120	14	6	16	20	13	50	4	76	21	1072	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
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(22) Mr. H.M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) ,, JOHN RAYNER,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, J.V.L. WESTMACOTT

|| Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	½
Measles	1	1	..	1	..	..	..	..	..	..	3	2½
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1
Diarrhœa	1	1	2	1	1	1	1	..	..	1	9	8
Fever	..	1	..	..	..	1	..	.	1	..	3	7
Diseases of the Lungs	6	9	..	1	4	8	2	2	15	1	48	45
Other causes	*17	†19	31	‡20	10	7	4	8	‖32	4	152	115½
TOTAL NO. OF DEATHS.	25	31	33	23	15	17	7	10	48	6	215	179½
TOTAL NO. OF BIRTHS.	46	38	28	23	24	28	53	33	66	20	359	342

*3—†8—‡13—‖15—Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 30th March.	4 Weeks ending 27th April.	4 Weeks ending 25th May.	TOTAL.	DISEASES.	5 Weeks ending 30th March.	4 Weeks ending 27th April.	4 Weeks ending 25th May.	TOTAL.
2	..	2	4	.... Small-pox	5	8	12	25
4	9	10	23	.... Chicken-pox	10	2	11	23
17	22	16	55	..... Measles	14	19	15	48
14	10	9	33	.... Scarlatina	7	6	5	18
5	5	3	13	.... Diphtheria	..	1	1	2
67	85	102	254	.. Whooping-cough ..	55	53	48	156
1	..	1	2	..... Croup	4	5	4	13
231	190	219	643	.....Diarrhœa.. ...	119	80	68	267
5	2	3	10	.... Dysentery	14	22	10	46
..	..	....	..	..... Cholera	..	1	....	1
21	18	20	59	.... Erysipelas	38	19	14	71
1	..	....	1	.. Puerperal Fever ..	3	3	1	7
29	13	23	65	..... Insanity	40	33	38	111
876	611	601	2118	Bronchitis and Catarrh	992	869	662	2523
11	18	11	40	..... Pleurisy	16	11	16	43
28	18	14	60	... Pneumonia	35	27	25	87
12	3	1	16	.... Carbuncle	5	6	3	14
4031	3450	3417	10898	Accidents, and all other Diseases	3576	3100	3047	9723
5358	4484	4452	14294	..... TOTAL	4933	4265	3980	13178

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

EALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

OL. I.] WEEK ENDING SATURDAY, JULY 6, 1861. [No. 49.

ETEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·597	29·613	—	29·608	28·864
Highest } Unreduced	—	30·119	30·120	—	30·136	29·272
Lowest } Unreduced	—	29·157	29·208	—	29·150	28·356
Range	—	0·967	0·912	—	0·986	0·916
Temperature.						
Adopted Mean	55·8	57·9	56·5	55·7	56·2	53·9
Range for Week	18·0	27·0	25·2	23·2	21·6	20·7
Daily Range	10·9	17·0	18·6	16·4	13·4	13·1
Maximum in Shade	69·5	74·0	71·0	68·4	67·6	67·7
Minimum in Shade	51·5	47·0	45·8	45·2	46·0	47·0
Maximum in Sun	—	98·8	82·0	81·4	82·0	72·5
Maximum in Sun: Black bulb in Vacuo	—	108·8	—	—	—	—
Minimum on Grass	—	43·5	33·0	45·7	44·2	41·6
Temperature in Ground at surface	—	55·75	57·97	—	—	—
Temperature 6 inches below	—	56·29	57·04	—	—	54·67 *(a)*
Temperature 12 inches below	—	57·63	59·14	—	—	53·98 *(b)*
Temperature of Evaporation	52·8	53·7	52·5	—	53·0	50·2
Temperature of Dew Point	50·0	50·3	48·8	—	50·0	46·6
Temperature of Air—Dew Point	5·8	7·6	7·7	—	6·2	7·3
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·06	4·08	3·80	—	4·06	3·57
Required to Saturate do	0·92	1·36	1·40	—	0·98	1·11
Weight of a cubic foot of Air	531·8	528·0	530·6	—	530·8	520·0
Degree of Humidity (Saturation—1,000)	0·818	0·747	0·755	—	0·798	0·748
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	4·98	5·05		—	4·98	4·40
Elastic force of Vapour	0·361	0·365	0·345	—	0·361	0·318
Clouds (Covered—10 Clear—0)	—	8·0	2·1	—	7·3	7·6
Prevailing Winds	—	W. & SE.	NW. & SE.	—	NW. & S.	S.
Rain	—	0·609	0·450	0·210	0·640	0·780
Days on which it fell	—	4	5	4	5	4
Ozonometer.						
Moffat (0—10)	—	1·86	—	—	3·76	5·16
Schonbein (0—10)	—	0·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·085	0·115	0·112	—	0·092	0·098
Weekly Evaporation	0·595	0·805	0·784	—	0·644	0·686

(a) 3 Feet below the surface. *(b)* 4 Feet below the surface.

There were 5 barometric oscillations during the past week, the amount being 1·564 inches: this bove the average for the season. There were 4 temperature oscillations, the amount being 10·5°.

The mean temperature of the week was 0·8° below the average of the last twelve years.

The highest mean temperature occurred at Old Trafford, and the lowest at Ollerenshaw.

The degree of humidity was the highest at the Royal Infirmary, and the lowest at Old Trafford.

The fall of rain in June was as follows :—

	Fall in Inches.	Days on which it Fell.
Old Trafford	2·412	17
Sale	2·230	18
Bowdon	2·570	15
Thelwall	3·147	20

Old Trafford, Manchester,
July 9th, 1861.

G. V. VERNON, F.R.A.S.

Erratum.—In the week ending June 22nd, in place of the mean temperature being 4·7° *below* the average, read 4·7° *above* the average.

MANCHESTER AND

New Cases of Disease coming under Treatment in Pa

During the Week

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..	..	2	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	1	..	..	..	..	..	3	1
Croup	..	..	..	..	..	..	..	..	1	..	..	1	..	..
Diarrhœa	1	..	1	2	3	7	..	1	6	1	1	1	9	3
Dysentery	..	..	2	..	..	2	..	..	..	..	..	..	1	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	1	..	3	..	1	5	1	2	..	..	..	..	2	..
Erysipelas	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	1	1	..	..	2	7	2	8	2	1	1	1	1
Constitutional Syphilis	..	..	..	..	..	..	2	..	3	..	..	..	..	1
Phthisis	..	..	1	1	..	2	3	..	25	3	4	1	1	1
Mesenteric Disease	..	..	..	1	2	3	..	..	1	..	..	..	2	..
Disease of Heart	..	..	..	1	..	1	1	..	5	1	..	..	..	..
Insanity	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis	1	..	..	..	..	1	11	..	39	3	1	1	3	3
Influenza and Catarrh	..	..	..	..	3	3	1	..	5	1	..	..	..	..
Pleurisy	..	..	..	..	..	..	..	..	2	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Dyspepsia	..	..	..	1	2	3	2	..	27	1	1	..	1	2
Kidney Disease	..	..	..	..	..	..	..	..	2	..	..	..	..	2
Neuralgic Affections	..	..	..	..	..	..	..	..	3	..	1	..	..	2
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Accidents and diseases not classified	9	9	1	2	4	25	44	34	225	5	10	7	26	6
Total	12	10	9	8	15	54	75	40	353	17	19	13	51	22

D SANITARY ASSOCIATION.

ble, and Public Institutions of Manchester and adjoining Districts,
day, the 6th day of July, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
.....1,329.....				.... 477....			.. 646...		508.	....	....	.....	Area in Statute Acres.
... 63,851.				.. 53,470. ..			.. 35,546 ..		16180	....	....	.....	Population in 1851.
ORLAW TRICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
16 Regent Road.	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	1	..	..	..	..	..	1	..	..	..	4	Measles
..	..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	1	..	..	..	..	..	4	..	..	..	10	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	2	Croup
..	..	2	1	..	..	1	1	3	..	2	2	47	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	..	3	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	4	..	2	..	..	..	..	..	4	1	21	Continued Fever
..	1	..	..	..	..	..	..	..	..	..	..	2	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	..	4	..	..	1	..	1	5	..	1	1	38	Rheumatism
..	1	..	..	..	1	..	..	..	..	..	..	8	Constitutional Syphilis
..	1	2	..	..	1	1	..	..	..	3	2	51	Phthisis
..	..	1	..	..	..	..	1	..	..	1	..	9	Mesenteric Disease
..	..	..	..	..	..	..	..	..	..	1	1	10	Disease of Heart
..	..	..	..	..	..	..	..	..	..	..	2	2	Insanity
..	1	11	1	..	3	5	1	2	1	10	..	100	Bronchitis
..	..	2	3	..	2	4	..	..	1	3	1	26	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	..	..	..	2	Pleurisy
..	..	..	..	..	..	..	..	1	..	..	..	4	Pneumonia
..	..	9	..	1	..	2	..	1	..	..	1	53	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	..	6	Kidney Disease
..	..	1	..	..	..	..	..	1	..	..	..	8	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
..	..	1	..	..	..	..	..	..	..	..	2	4	Ophthalmia
..	3	69	9	1	2	4	5	35	1	46	..	565	Accidents and diseases not classified
..	7	108	14	4	10	17	9	53	3	71	13	976	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

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(2) ,, JOHN ARMSTRONG,
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(27)

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Small Pox	1	..	..	..	..	..	..	..	..	..	1	½
Measles	..	..	..	..	..	..	..	..	1	..	1	2
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1
Diarrhœa	2	10	2	3	1	..	1	1	4	1	25	8
Fever	..	..	1	1	..	..	1	..	1	1	5	7
Diseases of the Lungs	9	6	..	9	5	*10	3	4	8	1	55	44½
Other causes	20	12	16	6	8	7	7	16	10	2	104	122½
TOTAL NO. OF DEATHS.	32	28	19	19	14	17	12	21	24	5	191	185½
TOTAL NO. OF BIRTHS.	54	31	10	14	22	33	11	30	49	15	269	334

*2 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 27th April.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	TOTAL.	DISEASES.	4 Weeks ending 27th April.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	TOTAL.
..	2	1	3	.... Small-pox	8	12	7	27
9	10	21	40	.... Chicken-pox	2	11	5	18
22	16	37	75	..... Measles	19	15	35	69
10	9	12	31	.... Scarlatina	6	5	7	18
5	3	9	17	.... Diphtheria	1	1	2	4
85	102	115	302	.. Whooping-cough ..	53	48	101	202
..	1	..	1	..... Croup	5	4	2	11
190	219	416	825	.....Diarrhœa.. ...	80	68	155	303
2	3	3	8	.... Dysentery	22	10	18	50
..	....	..	..	..... Cholera	1	....	3	4
18	20	15	53	.... Erysipelas	19	14	15	48
..	....	..	..	.. Puerperal Fever ..	3	1	2	6
13	23	11	47	..... Insanity	33	38	43	114
641	601	618	1860	Bronchitis and Catarrh	869	662	729	2260
18	11	14	43	..... Pleurisy	11	16	12	39
18	14	12	44	... Pneumonia	27	25	20	72
3	1	7	11	.... Carbuncle	6	3	6	15
3450	3417	4329	11196	Accidents, and all other Diseases	3100	3047	3907	10054
4484	4452	5620	14556	..... TOTAL	4265	3980	5069	13314

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, JULY 13, 1861. [No. 50.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·621	29·626	—	29·636	28·754
Highest } Unreduced	—	29·874	29·874	—	29·892	29·024
Lowest } Unreduced	—	29·530	29·522	—	29·520	28·680
Range	—	0·344	0·352	—	0·372	0·344
Temperature.						
Adopted Mean	57·6	59·0	57·6	59·0	57·2	55·4
Range for Week	18·0	23·7	25·5	26·4	19·4	20·2
Daily Range	9·7	15·5	17·4	17·0	12·7	10·5
Maximum in Shade	70·0	72·7	73·5	74·7	68·3	68·2
Minimum in Shade	52·0	49·0	48·0	48·3	48·9	48·0
Maximum in Sun	—	93·3	82·0	90·8	85·5	82·2
Maximum in Sun: Black bulb in Vacuo	—	109·5	—	—	—	—
Minimum on Grass	—	45·5	36·0	47·4	44·4	45·5
Temperature in Ground at surface	—	57·03	59·31	—	—	—
Temperature 6 inches below	—	57·24	58·28	—	—	55·54 (a)
Temperature 12 inches below	—	58·12	59·67	—	—	54·83 (b)
Temperature of Evaporation	54·4	55·2	54·9	—	53·1	52·3
Temperature of Dew Point	51·5	51·8	52·5	—	49·3	49·3
Temperature of Air—Dew Point	6·1	7·2	5·1	—	7·9	6·1
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·26	4·36	4·41	—	3·91	3·95
Required to Saturate do	1·06	1·24	0·91	—	1·33	0·99
Weight of a cubic foot of Air	529·5	528·1	529·6	—	530·5	516·4
Degree of Humidity (Saturation—1,000)	0·804	0·772	0·834	—	0·746	0·808
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	5·27	5·32	5·48	—	4·87	4·87
Elastic force of Vapour	0·381	0·385	0·396	—	0·352	0·352
Clouds (Covered—10 Clear—0)	—	8·6	4·2	—	6·6	9·5
Prevailing Winds	—	S.W. & S.	NW. & SW	—	NW.	S.
Rain	—	1·255	0·890	1·530	1·045	1·270
Days on which it fell	—	7	5	4	5	6
Ozonometer.						
Moffat (0—10)	—	1·14	—	—	—	4·71
Schonbein (0—10)	—	0·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·094	0·115	0·079	—	0·117	0·087
Weekly Evaporation	0·658	0·805	0·553	—	0·819	0·609

(a) 3 Feet below the surface. (b) 4 Feet below the surface.

There were 5 barometric oscillations during the past week, the amount being 0·792 inches. There were 5 temperature oscillations, the amount being 17·5°.

The mean temperature of the week was 1·7° below the average of the last twelve years, and also 1·7° below the corresponding week last year.

The mean temperature was the highest at Old Trafford and Bowdon, and the lowest at Ollerenshaw.

The degree of humidity was the lowest at Thelwall, and the highest at Sale.

Owing, no doubt, to the prevalence of heavy thunder showers during the week, the amount of rain has been very irregular at the various stations, being the greatest at Bowdon and the least at Sale.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
July 16th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in P

During the Weel

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical
Small-pox	..	*3	..	..	..	3	..	..	..	..	..	..	†1	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Measles	..	1	..	1	..	2	..	..	..	..	..	..	..	
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	1	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	1	1	..	..	1	3	..	..	..	..	1	..	5	.
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	..	3	..	..	6	9	2	..	1	..	..	1	9	
Dysentery	..	..	6	..	..	6	..	..	..	..	..	..	..	
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Continued Fever	..	3	2	..	..	5	..	..	..	..	..	2	6	
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Rheumatism	..	1	2	..	1	4	6	1	12	2	1	4	..	.
Constitutional Syphilis	..	..	..	1	..	1	5	..	3	..	..	..	3	
Phthisis	..	3	..	..	..	3	1	..	29	2	..	3	..	
Mesenteric Disease	..	..	..	..	1	1	1	..	..	..	..	..	2	.
Disease of Heart	..	..	..	1	..	1	1	..	6	1	..	..	..	.
Insanity	..	..	..	..	1	1	3	..	..	..	..	..	..	.
Bronchitis	..	1	..	1	..	2	7	3	28	2	1	3	3	3
Influenza and Catarrh	..	..	..	1	2	3	4	..	2	..	1	..	..	..
Pleurisy	..	..	..	..	..	..	1	..	..	..	1	2	..	..
Pneumonia.....	..	..	..	..	..	..	1	..	..	..	..	1	1	..
Dyspepsia	..	..	..	..	..	..	2	..	27	3	2	4	1	2
Kidney Disease	..	..	..	..	..	..	2	1	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Carbuncle	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Ophthalmia.....	..	..	..	1	..	1	..	..	..	..	..	..	4	..
Accidents and diseases not classified	4	4	2	5	9	24	48	25	246	4	2	7	26	6
Total.....	5	20	12	11	21	69	85	31	354	14	9	27	62	22

* Not Vaccinated. † Had been Vaccinated.

SANITARY ASSOCIATION.

, and Public Institutions of Manchester and adjoining Districts,
, *the* 13*th day of July*, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
...1,329.				.... 477.			.. 646.		508.	....	....	.....	Area in Statute Acres.
. 63,851.				.. 53,470.			.. 35,546		16180	....	....	.....	Population in 1851.
LAW ICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	..	4	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	..	..	..	..	..	..	..	3	Measles
..	..	..	..	..	..	..	..	..	..	..	..	1	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	1	..	..	..	10	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	2	3	..	..	..	..	6	..	4	..	46	Diarrhœa
..	..	..	..	..	..	..	..	..	..	1	..	9	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	1	3	..	3	..	..	..	1	..	2	..	24	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	..	..	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	1	4	1	..	2	1	1	5	..	2	1	48	Rheumatism
..	..	..	..	..	2	..	1	..	..	..	..	16	Constitutional Syphilis
..	..	4	..	..	1	..	1	3	..	1	2	51	Phthisis
.	..	2	..	1	..	..	..	..	..	..	1	8	Mesenteric Disease
.	..	2	..	..	..	..	..	..	..	..	..	11	Disease of Heart
.	..	..	..	..	1	..	1	1	1	..	3	11	Insanity
.	2	12	1	1	..	2	..	1	1	3	1	79	Bronchitis
.	..	4	4	..	3	3	..	..	..	2	1	27	Influenza and Catarrh
.	..	..	..	1	..	..	..	..	..	..	..	5	Pleurisy
.	..	..	1	..	..	..	..	..	..	..	..	4	Pneumonia
.	..	4	..	..	2	3	..	3	..	1	..	55	Dyspepsia
.	..	..	..	..	..	..	..	..	..	..	..	3	Kidney Disease
.	..	2	..	1	..	..	1	..	..	..	..	6	Neuralgic Affections
.	..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
.	..	..	..	..	..	..	..	..	..	..	1	6	Ophthalmia
.	4	63	8	1	5	4	2	32	1	68	10	594	Accidents and diseases not classified
.	8	102	18	8	16	13	7	53	3	84	20	1022	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) Dr. JOHN MEDD,
(9) Mr. J. S. DAVIES,
(10) ,, W. J. MALLETT,
(11) ,, H. RUNCORN,
(12) ,, J. V. L. WESTMACOTT
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) ,, J. TEALE,
(16) ,, T. F. BROWNBILL
(17) ,, J. V. L. WESTMACOTT
(18) Mr. J. O. BRADBURY,
(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) ,, JOHN RAYNER,
(25) ,, J. M. KIRKMAN,
(26) ,, ABEL PENNINGTON
(27) ,, J. V. L. WESTMACOTT

|| Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	½
Measles	..	..	..	..	1	..	..	1	..	..	2	2
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	11	6	2	4	1	2	4	1	5	..	36	13
Fever	2	..	..	..	..	1	..	..	1	..	4	7½
Diseases of the Lungs	5	9	..	6	5	*7	..	2	10	3	54	44
Other causes	21	11	20	11	7	8	13	+10	19	3	116	123
TOTAL NO. OF DEATHS.	39	26	22	21	14	18	17	14	35	6	212	190
TOTAL NO. OF BIRTHS.	50	35	24	18	19	36	39	34	60	19	334	310

*1 Inquest. +7 Whooping-cough.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 27th April.	4 weeks ending 25th May.	5 Weeks ending 29th June.	TOTAL.	DISEASES.	4 Weeks ending 27th April.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	TOTAL.
..	2	1	3	.... Small-pox	8	12	7	27
9	10	21	40	.... Chicken-pox	2	11	5	18
22	16	37	75	..... Measles	19	15	35	69
10	9	12	31	.... Scarlatina	6	5	7	18
5	3	9	17	.... Diphtheria	1	1	2	4
85	102	115	302	.. Whooping-cough ..	53	48	101	202
..	1	..	1	..... Croup	5	4	2	11
190	219	416	825	.....Diarrhœa.. ...	80	68	155	303
2	3	3	8	.... Dysentery	22	10	18	50
..	....	..	..	..... Cholera	1	....	3	4
18	20	15	53	.... Erysipelas	19	14	15	48
..	....	..	..	.. Puerperal Fever ..	3	1	2	6
13	23	11	47	..... Insanity	33	38	43	114
611	601	618	1860	Bronchitis and Catarrh	869	662	729	2260
18	11	14	43	..... Pleurisy	11	16	12	39
18	14	12	44	... Pneumonia	27	25	20	72
3	1	7	11	.... Carbuncle	6	3	6	15
3450	3417	4329	11196	Accidents, and all other Diseases	3100	3047	3907	10054
4484	4452	5620	14556	..... TOTAL	4265	3980	5069	13314

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HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, JULY 20, 1861. [No. 51.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

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Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·524	29·544	—	29·561	28·677
Highest } Unreduced	—	29·767	29·774	—	29·804	28·944
Lowest } Unreduced	—	29·498	29·520	—	29·528	29·662
Range	—	0·269	0·254	—	0·276	0·282
Temperature.						
Adopted Mean	58·4	59·5	59·0	60·0	58·3	56·2
Range for Week	19·0	31·2	30·5	33·3	23·7	23·3
Daily Range	10·3	17·0	17·8	19·0	14·5	12·3
Maximum in Shade	70·0	75·8	74·0	76·9	72·0	71·0
Minimum in Shade	51·0	44·6	43·5	43·6	48·3	47·7
Maximum in Sun	—	105·8	85·5	96·8	87·5	84·5
Maximum in Sun: Black bulb in Vacuo	—	118·8	—	—	—	—
Minimum on Grass	—	42·5	31·0	45·2	43·5	46·7
Temperature in Ground at surface	—	56·94	60·10	—	—	—
Temperature 6 inches below	—	57·22	58·57	—	—	55·86 *(a)*
Temperature 12 inches below	—	58·28	60·02	—	—	55·07 *(b)*
Temperature of Evaporation	55·3	56·1	55·3	—	55·2	52·5
Temperature of Dew Point	52·5	53·1	52·0	—	52·4	49·0
Temperature of Air—Dew Point	5·9	6·4	7·0	—	5·9	7·2
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·41	4·53	4·39	—	4·40	3·93
Required to Saturate do	1·07	1·17	1·21	—	1·06	1·11
Weight of a cubic foot of Air	526·9	525·5	526·7	—	527·7	517·6
Degree of Humidity (Saturation—1,000)	0·808	0·801	0·778	—	0·807	0·770
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	5·48	5·35	5·37	—	5·45	4·81
Elastic force of Vapour	0·396	0·401	0·388	—	0·394	0·348
Clouds (Covered—10 Clear—0)	—	6·1	2·2	—	6·6	8·0
Prevailing Winds	—	W. & SW.	S.W.	—	SW.SE. W	W. & S.
Rain	—	0·684	0·910	0·610	0·540	0·635
Days on which it fell	—	5	7	6	6	5
Ozonometer.						
Moffat (0—10)	—	1·43	—	—	3·78	5·14
Schonbein (0—10)	—	0·57	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·093	0·100	0·112	—	0·093	0·105
Weekly Evaporation	0·651	0·700	0·784	—	0·651	0·735

(a) 3 Feet below the surface. *(b)* 4 Feet below the surface.

There were 5 barometric oscillations during the past week, the amount being 0·764 inches. There were 4 temperature oscillations, the amount being 14·3°.

The mean temperature of the week was 1·9° below the average of the last twelve years, and 0·3° below the corresponding week last year.

The mean temperature during the week was the highest at Bowdon, and the lowest at Ollerenshaw.

The degree of humidity was the highest at the Royal Infirmary, and the lowest at Ollerenshaw.

The fall of rain was the greatest at Sale, and the least at Thelwall.

Ozone occurred upon 2 days at Old Trafford, and upon 7 each at Thelwall and Ollerenshaw.

Old Trafford, Manchester,
July 24th, 1861.

G. V. VERNON, F.R.A.S.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week e

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	2	..	..	..	..	2	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	1	1	..	..	..	..	..	..	1	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	1	..	..	..	8	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	3	9	..	1	12	25	7	..	6	..	3	1	20	13
Dysentery	..	..	..	..	..	..	..	1	2	..	..	..	2	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	1	..	2	1	6	3	..	..	4	4	..
Erysipelas	..	..	..	..	..	..	1	..	..	..	..	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	1	..	..	..	1	8	4	19	..	1	1	..	..
Constitutional Syphilis	..	..	..	..	..	..	4	..	8	..	1	..	1	2
Phthisis	..	..	..	..	1	1	2	..	23	3	3	1	1	1
Mesenteric Disease	..	..	..	..	..	..	1	..	1	..	..	1	1	5
Disease of Heart	..	..	..	..	..	..	2	2	3	..	..	2	..	..
Insanity	..	..	..	..	..	..	3	..	..	..	..	..	..	..
Bronchitis	1	..	1	1	..	3	9	1	34	3	4	..	3	..
Influenza and Catarrh	..	2	..	..	..	2	2	..	3	..	..	..	3	..
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia.....	1	..	..	..	..	1	2	1	2	..	..	..	..	1
Dyspepsia	..	..	..	..	1	1	4	..	33	11	..	..	2	1
Kidney Disease	..	..	..	..	..	..	..	2	2	..	1	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	1	4	..	..	..	..	2
Carbuncle	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Ophthalmia.....	..	..	..	..	..	..	1	..	..	..	..	..	1	..
Accidents and diseases not classified	2	5	2	9	3	21	36	17	200	5	3	2	23	3
Total.....	9	17	5	12	18	61	83	36	344	22	16	13	70	29

SANITARY ASSOCIATION.

e, and Public Institutions of Manchester and adjoining Districts,
, *the 20th day of July*, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
...1,329.				.... 477.			.. 646.		508.	....	....	.....	Area in Statute Acres.
. 63,851.				.. 53,470.			.. 35,546		16180	....	....	.....	Population in 1851.
LAW ICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 16	Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Ancoats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	2	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	1	..	..	..	..	..	..	3	Measles
..	..	..	..	..	..	..	..	1	..	..	..	1	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	2	..	..	..	..	..	4	..	..	..	16	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	3	2	1	1	2	2	10	..	6	1	103	Diarrhœa
..	..	1	..	..	..	2	1	..	..	1	..	10	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	..	..	..	2	..	2	..	26	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	1	3	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	3	3	..	1	2	..	..	1	..	3	2	49	Rheumatism
..	..	..	..	..	..	..	..	..	..	1	1	19	Constitutional Syphilis
..	..	6	..	1	2	1	..	1	1	4	2	53	Phthisis
..	..	2	..	..	..	1	..	..	..	1	2	15	Mesenteric Disease
..	..	1	..	..	..	..	..	..	..	..	..	10	Disease of Heart
..	4	..	..	..	..	..	..	..	..	..	..	7	Insanity
..	1	7	..	..	..	..	1	..	..	10	1	77	Bronchitis
..	1	3	1	..	2	3	1	..	..	2	..	23	Influenza and Catarrh
..	..	1	..	..	..	..	..	..	..	..	..	1	Pleurisy
..	..	..	2	..	..	..	..	1	..	..	1	11	Pneumonia
..	..	11	4	..	..	1	1	4	..	2	..	75	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	..	5	Kidney Disease
..	..	5	..	..	..	..	..	..	..	..	1	13	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
..	..	..	1	..	..	..	..	..	..	..	1	4	Ophthalmia
..	8	56	5	5	..	4	3	25	1	53	..	476	Accidents and diseases not classified
..	17	101	15	8	8	14	9	49	2	85	13	1004	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
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(25) ,, J. M. KIRKMAN.
(26) ,, ABEL PENNINGTON
(27) ,, J. V. L. WESTMACOTT

‖ Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowes.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	
Measles	1	..	..	..	..	..	..	..	..	..	1	2
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	8	7	3	4	4	2	..	5	3	5	41	20½
Fever	2	..	1	1	..	..	2	..	..	1	7	5
Diseases of the Lungs	10	4	..	1	2	5	6	5	7	5	45	47½
Other causes	14	10	13	4	17	12	7	8	21	5	111	118
TOTAL NO. OF DEATHS.	35	21	17	10	23	19	15	18	31	16	205	193
TOTAL NO. OF BIRTHS.	37	30	19	30	22	30	12	31	58	20	289	314

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 27th April.	4 weeks ending 25th May.	5 Weeks ending 29th June.	TOTAL.	DISEASES.	4 Weeks ending 27th April.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	TOTAL.
..	2	1	3	.... Small-pox	8	12	7	27
9	10	21	40	.... Chicken-pox	2	11	5	18
22	16	37	75	..... Measles	19	15	35	69
10	9	12	31	.... Scarlatina	6	5	7	18
5	3	9	17	.... Diphtheria	1	1	2	4
85	102	115	302	.. Whooping-cough ..	53	48	101	202
..	1	..	1	..... Croup	5	4	2	11
190	219	416	825	.....Diarrhœa.. ...	80	68	155	303
2	3	3	8	.... Dysentery	22	10	18	50
..	....	..	..	..... Cholera	1	....	3	4
18	20	15	53	.... Erysipelas	19	14	15	48
..	....	..	..	.. Puerperal Fever ..	3	1	2	6
13	23	11	47	..... Insanity	33	38	43	114
641	601	618	1860	Bronchitis and Catarrh	869	662	729	2260
18	11	14	43	..... Pleurisy	11	16	12	39
18	14	12	44	... Pneumonia	27	25	20	72
3	1	7	11	.... Carbuncle	6	3	6	15
3450	3417	4329	11196	Accidents, and all other Diseases	3100	3047	3907	10054
4484	4452	5620	14556	..... TOTAL	4265	3980	5069	13314

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, JULY 27, 1861. [No. 52.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw, A. NEILD, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·465	29·499	—	29·485	28·749
Highest (Unreduced)	—	29·692	29·722	—	29·700	28·872
Lowest (Unreduced)	—	29·263	29·302	—	29·320	28·482
Range	—	0·429	0·420	—	0·380	0·390
Temperature.						
Adopted Mean	59·0	60·1	59·2	60·1	58·4	56·6
Range for Week	14·0	22·0	22·3	23·4	22·5	19·3
Daily Range	8·8	14·6	15·6	16·8	13·7	12·5
Maximum in Shade	68·0	72·3	71·8	72·4	72·2	69·5
Minimum in Shade	54·0	50·3	49·5	49·0	49·7	50·2
Maximum in Sun	—	91·7	86·5	88·5	90·0	83·2
Maximum in Sun: Black bulb in Vacuo	—	107·5	—	—	—	—
Minimum on Grass	—	47·3	33·2	48·8	48·0	47·0
Temperature in Ground at surface	—	58·08	59·33	—	—	—
Temperature 6 inches below	—	58·24	58·83	—	—	56·06 (a)
Temperature 12 inches below	—	59·01	60·29	—	—	55·30 (b)
Temperature of Evaporation	56·6	57·3	56·2	—	57·0	53·6
Temperature of Dew Point	54·4	54·9	53·5	—	55·7	50·8
Temperature of Air—Dew Point	4·6	5·2	5·7	—	2·7	5·8
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·78	4·81	4·62	—	4·92	4·16
Required to Saturate do	0·82	1·01	1·02	—	0·56	0·96
Weight of a cubic foot of Air	525·0	523·6	525·5	—	528·8	514·8
Degree of Humidity (Saturation—1,000)	0·856	0·833	0·822	—	0·906	0·810
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	5·86	5·96	5·67	—	6·14	5·13
Elastic force of Vapour	0·424	0·431	0·410	—	0·444	0·371
Clouds (Covered—10 Clear—0)	—	9·2	5·2	—	7·7	9·2
Prevailing Winds	—	SW. & S.	S.W.	—	W. & S W.	SW. & W.
Rain	—	0·959	1·650	0·790	1·223	0·695
Days on which it fell	—	7	7	6	7	6
Ozonometer.						
Moffat (0—10)	—	2·57	—	—	4·14	4·28
Schonbein (0—10)	—	1·14	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·076	0·089	0·093	—	0·045	0·088
Weekly Evaporation	0·532	0·623	0·651	—	0·315	0·616

(a) 3 Feet below the surface. *(b)* 4 Feet below the surface.

There were 7 barometric oscillations during the past week, the amount being 1·580 inches. There were 6 temperature oscillations, the amount being 22·8°.

The mean temperature of the week was 0·6° below the average of the last twelve years, and 4·9° above the corresponding week last year.

The mean temperature was the highest at Old Trafford and Bowdon, and the lowest at Ollerenshaw. The daily and weekly ranges of temperature increased from the Royal Infirmary to Bowdon, and thence diminished to Ollerenshaw.

The degree of humidity was the highest at Thelwall, and the lowest at Ollerenshaw.

The great difference in the fall of rain, at the different stations, is owing to several heavy thunder storms, which passed over Thelwall and Sale, and which were not so violent at the other stations.

Ozone occurred upon 3 days at Old Trafford, and upon every day during the week at Thelwall and Ollerenshaw.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
July 31st, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in I

During the Wee

	MANCHESTER.													
Area in Statute Acres	..... Manchester Township 1,645													
Population in 1851	..... „ „ 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childr	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	1 Clinical
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Measles	..	..	..	..	2	2	..	..	..	1	..	1	4	.
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	..	..	1	1	..	..	3	..	..	..	5	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	2	5	1	5	11	24	7	..	6	4	1	3	28	1
Dysentery	..	..	2	..	..	2	..	..	2	..	..	..	4	
Cholera	..	..	..	..	..	..	..	..	1	..	..	..	..	
Continued Fever	..	2	2	1	..	5	4	2	1	..	..	..	1	
Erysipelas	..	..	..	..	..	..	1	..	..	1	..	..	..	
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatism	..	2	2	1	..	5	3	..	14	..	2	4	..	
Constitutional Syphilis	..	..	..	..	..	..	..	..	9	..	..	..	..	
Phthisis	..	2	..	..	..	2	7	..	28	3	1	3	..	
Mesenteric Disease	..	2	..	1	..	3	2	..	1	..	..	..	..	
Disease of Heart	..	..	..	..	..	..	2	..	4	2	..	..	..	
Insanity	..	..	..	..	..	..	6	..	..	..	1	..	..	
Bronchitis	..	2	..	1	..	3	2	2	30	3	1	..	5	
Influenza and Catarrh	..	1	..	1	1	3	5	..	5	2	1	1	4	
Pleurisy	..	..	..	..	..	..	2	..	..	..	1	..	..	
Pneumonia.....	..	..	..	..	..	..	2	..	..	..	..	..	..	
Dyspepsia	..	..	..	..	..	..	2	..	30	3	..	..	..	
Kidney Disease	..	..	..	..	..	..	..	..	2	..	..	..	..	
Neuralgic Affections	..	..	..	..	..	..	1	..	2	..	1	..	..	
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ophthalmia.....	..	..	..	..	..	..	2	..	1	..	..	..	1	
Accidents and diseases not classified	5	6	3	2	6	22	41	30	251	4	7	9	25	
Total.....	7	22	10	12	21	72	89	34	390	23	16	21	77	2

SANITARY ASSOCIATION.

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, *the 27th day of July*, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
....1,329.				.... 477.			.. 646.		508.	....	....	.....	Area in Statute Acres.
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LAW RICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
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..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	1	1	..	..	..	..	..	1	..	..	..	11	Measles
..	..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	3	..	..	1	..	..	2	..	..	..	16	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	10	9	1	3	7	3	8	..	3	1	142	Diarrhœa
..	..	6	..	..	..	..	..	1	..	..	..	18	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	1	Cholera
..	..	1	..	..	..	..	..	1	..	4	1	21	Continued Fever
..	..	2	..	..	..	..	..	1	..	..	1	6	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	1	3	..	..	..	1	..	3	2	1	..	39	Rheumatism
..	..	..	..	..	..	..	..	2	1	..	1	13	Constitutional Syphilis
..	..	1	..	..	..	1	1	..	..	2	2	51	Phthisis
..	..	2	..	..	..	..	..	..	1	1	..	10	Mesenteric Disease
..	..	2	..	..	..	..	..	..	..	1	..	11	Disease of Heart
..	..	..	..	..	..	..	..	..	..	..	1	8	Insanity
..	..	7	..	1	..	1	..	1	..	7	..	64	Bronchitis
..	2	14	4	..	1	4	2	..	..	2	..	50	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	..	..	..	3	Pleurisy
..	..	1	..	1	..	..	..	..	..	..	1	5	Pneumonia
..	..	1	2	..	..	..	..	2	..	2	..	44	Dyspepsia
..	..	..	1	..	..	..	..	..	..	..	1	4	Kidney Disease
..	..	3	..	..	1	..	1	..	..	..	..	9	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
..	..	..	..	..	3	..	..	..	..	..	..	7	Ophthalmia
..	8	57	5	2	..	..	4	28	3	57	..	567	Accidents and diseases not classified
‖..	12	114	21	5	9	14	11	50	7	85	9	1100	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

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‖ Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	
Measles	..	..	..	1	1	..	..	..	..	..	2	2
Scarlatina	..	..	..	..	2	..	..	..	..	..	2	..
Diarrhœa	8	8	4	6	3	5	7	3	5	2	51	28
Fever	..	1	..	..	..	1	1	1	4	..	8	4½
Diseases of the Lungs	5	3	1	4	4	6	4	3	6	3	39	50½
Other causes	13	12	26	11	21	*8	20	†5	22	‡9	147	121
TOTAL NO. OF DEATHS.	26	24	31	22	31	20	32	12	37	14	249	206
TOTAL NO. OF BIRTHS.	34	37	23	22	31	33	37	24	49	15	305	313

* 2 Inquests. † 1 Cholera. ‡ 1 Whooping-cough.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

4 Weeks ending 27th April.	4 weeks ending 25th May.	5 Weeks ending 29th June.	TOTAL.	DISEASES.	4 Weeks ending 27th April.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	TOTAL.
..	2	1	3	.... Small-pox	8	12	7	27
9	10	21	40	.... Chicken-pox	2	11	5	18
22	16	37	75	..... Measles	19	15	35	69
10	9	12	31	.... Scarlatina	6	5	7	18
5	3	9	17	.... Diphtheria	1	1	2	4
85	102	115	302	.. Whooping-cough ..	53	48	101	202
..	1	..	1	..... Croup	5	4	2	11
190	219	416	825	.....Diarrhœa.. ...	80	68	155	303
2	3	3	8	.... Dysentery	22	10	18	50
..	....	..	..	..... Cholera	1	....	3	4
18	20	15	53	.... Erysipelas	19	14	15	48
..	....	..	..	.. Puerperal Fever ..	3	1	2	6
13	23	11	47	..... Insanity	33	38	43	114
611	601	618	1860	Bronchitis and Catarrh	869	662	729	2260
18	11	14	43	..... Pleurisy	11	16	12	39
18	14	12	44	... Pneumonia	27	25	20	72
3	1	7	11	.... Carbuncle	6	3	6	15
3450	3417	4329	11196	{ Accidents, and all other Diseases }	3100	3047	3907	10054
4484	4452	5620	14556	..... TOTAL	4265	3980	5069	13314

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, AUGUST 3, 1861. [No. 53.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	NO RETURN.
Mean @ 32° F	—	29·667	29·663	—	29·684	
Highest (Unreduced)	—	29·952	29·950	—	29·962	
Lowest (Unreduced)	—	29·476	29·510	—	29·482	
Range	—	0·476	0·440	—	0·480	
Temperature.						
Adopted Mean	58·6	60·0	59·0	59·1	58·9	
Range for Week	18·0	25·3	27·5	28·3	24·5	
Daily Range	11·4	18·2	17·4	18·6	15·2	
Maximum in Shade	71·0	74·3	73·0	75·0	72·5	
Minimum in Shade	53·0	49·0	45·5	46·7	48·0	
Maximum in Sun	—	93·8	83·5	92·0	86·6	
Maximum in Sun: Black bulb in Vacuo	—	107·6	—	—	—	
Minimum on Grass	—	46·0	34·0	46·9	44·0	
Temperature in Ground at surface	—	57·28	57·97	—	—	
Temperature 6 inches below	—	57·72	57·91	—	—	
Temperature 12 inches below	—	58·89	59·90	—	—	
Temperature of Evaporation	55·0	56·1	54·4	—	55·6	
Temperature of Dew Point	51·8	52·7	50·2	—	52·6	
Temperature of Air—Dew Point	6·8	7·3	8·8	—	6·3	
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	
Weight of Vapour in a cubic foot of Air	4·28	4·43	4·12	—	4·40	
Required to Saturate do	1·24	1·37	1·48	—	1·06	
Weight of a cubic foot of Air	529·3	527·7	528·9	—	529·2	
Degree of Humidity (Saturation—1,000)	0·846	0·766	0·730	—	0·801	
	INS.	INS.	INS.	INS.	INS.	
Water in a vertical column of the Atmosphere	5·99	5·52	5·03	—	5·49	
Elastic force of Vapour	0·433	0·399	0·364	—	0·397	
Clouds (Covered—10 Clear—0)	—	6·5	4·8	—	5·8	
Prevailing Winds	—	S. & SW.	S.W.	—	S. & S W.	
Rain	—	0·564	0·630	1·220	0·562	
Days on which it fell	—	5	5	6	5	
Ozonometer.						
Moffat (0—10)	—	3·14	—	—	5·21	
Schonbein (0—10)	—	1·71	—	—	—	
	INS.	INS.	INS.	INS.	INS.	
Daily Evaporation	0·059	0·119	0·136	—	0·101	
Weekly Evaporation	0·413	0·833	0·952	—	0·707	

There were 5 barometric oscillations during the week, the amount being 1·884 in.; this is considerably above the average. There were 6 temperature oscillations during the week, the amount being 17·2°.

The mean temperature of the week was 0·7° below the average of the last twelve years, and 4·4° above the same week last year.

The mean temperature of the week was the highest at Old Trafford, and the lowest at the Royal Infirmary.

The degree of humidity was the lowest at Sale, and the highest at the Royal Infirmary.

Rain fell greatly in excess of the other stations at Bowdon during the past week.

Ozone occurred upon 4 days at Old Trafford, and upon every day at Thelwall.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
August 7th, 1861.

MANCHESTER AND SAL

New Cases of Disease coming under Treatment in Pauper,

During the Week ending Saturda

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1861	" " 185,050													
DISEASES.	POOR LAW DISTRICTS.						PUBLIC INSTITUTIONS.							
								ROYAL INFIRMARY.					CHILDREN	
	Ancoats.	St. George's.	Market Street.	St. Jude's.	St. Michael's.	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5		6	7	8	9	10	11	12	13
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..	..	6	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	4	4	1	..	..	..	..	1	1	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	3	4	3	7	7	24	6	..	8	..	4	2	38	17
Dysentery	..	..	2	..	..	2	1	..	..	..	..	..	3	2
Continued Fever	..	1	1	..	1	3	1	1	..	..	..	..	6	..
Erysipelas	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Rheumatism	..	..	..	1	..	1	7	1	18	2	1	..	1	..
Neuralgic Affections	..	..	1	..	..	1	..	..	..	..	..	..	1	1
Constitutional Syphilis	..	..	..	..	..	..	..	..	9	..	..	..	3	2
Phthisis	..	..	..	1	1	2	1	..	24	2	3	4	..	..
Insanity	..	..	2	..	..	2	1	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	1	1	..	..	4	6	10	..	26	5	..	2	8	..
Pleurisy and Pneumonia	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Skin Diseases	..	1	2	..	..	3	9	1	1	..	..	..	2	1
Dyspepsia	1	1	..	1	1	4	..	..	47	..	1	..	..	..
Accidents and diseases not classified	6	10	4	1	3	24	43	28	*265	9	10	2	27	2
TOTAL	11	18	15	11	21	76	82	31	398	18	19	11	96	25

* 2 Cases of Cholera.

† This week a severe form of Choleraic Diarrhœa is prevelant in this district, in one or two case rapidly fatal.

ANITARY ASSOCIATION.

d Public Institutions of Manchester and adjoining Districts,

f August, 1861.

LFORD.			HULME.			CHORL-TON.	ARD-WICK					
1,329			.... 477.			.. 646. ..	508.	....	....		.....	Area in Statute Acres.
0,967.			.. 68,209. ..			.. 44,850 ..	21739	....	....		.....	Population in 1861.
PUBLIC NSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26		
.	..	..	..	..	..	..	..	..	..	..	..	Small-pox
.	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
.	..	..	..	..	..	..	1	..	..	..	7	Measles
.	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
.	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
.	..	..	..	..	..	..	2	..	..	..	9	Whooping-cough
.	..	..	..	..	..	..	1	..	..	..	1	Croup
4	11	2	2	1	3	2	10	1	5	4	145	Diarrhœa
..	5	..	..	..	1	1	..	..	..	..	15	Dysentery
1	1	..	1	..	4	..	3	..	..	1	22	Continued Fever
..	..	..	..	..	..	..	..	..	..	1	2	Erysipelas
1	5	2	..	2	1	1	4	..	..	1	48	Rheumatism
.	1	..	3	3	..	..	..	..	..	..	10	Neuralgic Affections
..	..	..	..	..	..	..	2	..	2	..	19	Constitutional Syphilis
..	6	1	..	..	..	..	..	..	..	1	47	Phthisis
..	..	..	1	..	..	1	..	..	..	2	7	Insanity
5	9	2	3	3	4	2	3	1	5	1	99	Bronchitis, Influenza, and Catarrah.
1	2	..	..	..	..	..	..	..	..	..	4	Pleurisy & Pneumonia.
3	5	1	1	..	1	1	2	..	..	7	38	Skin Disease.
..	12	..	1	..	3	..	3	..	1	..	74	Dyspepsia
6	59	7	4	3	4	‡3	33	2	50	..	592	Accidents and diseases not classified
21	116	15	16	12	21	11	64	4	63	18	1139	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) ,, M. ROWLAND DAY,

(8) } Dr. JOHN MEDD,
(9) } Mr. J. S. DAVIES,
(10) } ,, W. J. MALLETT,
(11)
(12) ,, H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,

(15) Mr. J. TEALE,
(16) ,, T. F. BROWNBILL
(17) ,, J. O. BRADBURY,
(18) ,, W. B. STOTT,
(19) ,, T. G. RICHMOND,
(20) Dr. ALEX. WILSON,

(21) Mr. H. M. WILLIAMSON.
(22) ,, W. B. MIDWOOD,
(23) ,, JOHN RAYNER,
(24) ,, J. M. KIRKMAN,
(25) ,, A. F. PENNINGTON
(26) ,, J. V. L. WESTMACOTT

‡ One case of Cholera seized suddenly at 3 a.m. on the morning of August 1st; no premonitory Diarrhœa; symptoms very severe; at its acme in 9 hours; recovering; cannot be attributed to improper food. Treatment: Brandy, with lead and opium.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	..	..	..	1	..	..	..	..	..	2	1½
Whooping-cough	..	3	..	1	2	..	..	1	2	..	9	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	½
Diarrhœa	17	4	3	*13	5	9	6	..	3	2	62	38
Fever	..	..	..	1	..	..	..	1	1	..	3	6
Diseases of the Lungs	7	1	..	3	3	4	5	2	7	..	32	48
Other causes	11	9	19	10	6	†4	11	13	19	5	107	119½
TOTAL NO. OF DEATHS.	36	17	22	28	17	17	22	17	32	7	215	213½
TOTAL NO. OF BIRTHS.	44	44	32	18	21	36	29	26	53	14	317	299

* 1 Choleraic. † 1 English Cholera.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson,* Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD. Population in 1861, 390,815.

4 weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.	DISEASES.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.
2	1	2	5	.... Small-pox	12	7	7	26
10	21	6	37	.... Chicken-pox	11	5	..	16
16	37	16	69	..... Measles	15	35	21	71
9	12	14	35	.... Scarlatina	5	7	2	14
3	9	3	15	.... Diphtheria	1	2	1	4
102	115	47	264	.. Whooping-cough ..	48	101	52	201
1	..	..	1	..... Croup	4	2	2	8
219	416	966	1601	.....Diarrhœa.. ...	68	155	338	561
3	3	7	13	.... Dysentery	10	18	40	68
....	..	1	1	..... Cholera	....	3	1	4
20	15	6	41	.... Erysipelas	14	15	11	40
....	..	..	..	.. Puerperal Fever ..	1	2	..	3
23	11	8	42	..... Insanity	38	43	28	109
601	618	344	1563	Bronchitis and Catarrl	662	729	446	1837
11	14	15	40	..... Pleurisy	16	12	11	39
14	12	15	41	... Pneumonia	25	20	24	69
1	7	2	10	.... Carbuncle	3	6	2	11
3417	4329	3385	11131	{ Accidents, and all other Diseases }	3047	3907	2850	9804
4452	5620	4837	14909	..... TOTAL	3980	5069	3836	12885

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COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, AUGUST 10, 1861. [No. 54.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw, A. NEILD, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·736	29·740	—	29·750	28·929
Highest (Unreduced)	—	29·988	29·992	—	30·028	29·166
Lowest (Unreduced)	—	29·519	29·550	—	29·552	28·928
Range	—	0·469	0·442	—	0·476	0·238
Temperature.						
Adopted Mean	60·0	62·6	61·3	59·8	60·7	57·5
Range for Week	19·0	29·0	29·0	26·8	25·0	19·1
Daily Range	11·8	17·7	18·2	17·1	14·0	12·2
Maximum in Shade	72·0	78·0	77·0	74·0	73·6	68·1
Minimum in Shade	53·0	44·0	48·8	47·2	48·6	49·0
Maximum in Sun	—	90·5	88·0	88·0	95·0	79·7
Maximum in Sun: Black bulb in Vacuo	—	102·3	—	—	—	—
Minimum on Grass	—	46·0	34·2	48·0	46·0	45·5
Temperature in Ground at surface	—	58·21	60·25	—	—	—
Temperature 6 inches below	—	58·41	59·03	—	—	56·20 *(a)*
Temperature 12 inches below	—	59·37	60·54	—	—	55·63 *(b)*
Temperature of Evaporation	57·2	58·1	57·4	—	58·1	54·0
Temperature of Dew Point	54·8	54·3	54·2	—	55·8	50·8
Temperature of Air—Dew Point	5·2	8·3	7·1	—	4·9	6·7
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·78	4·68	4·66	—	4·99	4·15
Required to Saturate do	1·03	1·64	1·40	—	0·95	1·15
Weight of a cubic foot of Air	528·9	526·1	527·6	—	528·2	517·2
Degree of Humidity (Saturation—1,000)	0·832	0·735	0·775	—	0·844	0·785
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	5·95	5·83	5·82	—	6·17	5·13
Elastic force of Vapour	0·430	0·422	0·421	—	0·446	0·371
Clouds (Covered—10 Clear—0)	—	4·7	4·9	—	6·8	6·5
Prevailing Winds	—	S. & SW.	S.W.	—	S. & SW.	SW. & W.
Rain	—	0·592	0·550	0·520	0·489	2·100
Days on which it fell	—	5	5	5	5	5
Ozonometer.						
Moffat (0—10)	—	7·43	—	—	4·00	5·28
Schonbein (0—10)	—	2·57	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·088	0·146	0·122	—	0·085	0·102
Weekly Evaporation	0·616	1·022	0·854	—	0·595	0·714

(*a*) 3 feet below the surface. (*b*) 4 feet below the surface.

There were 6 barometric oscillations during the week, the amount being 1·298 ins.; There were 5 temperature oscillations, the amount being 29·4°.

The mean temperature of the week was 2·3° above the average, and 8·3° above the corresponding week last year.

The mean temperature of the week was the highest at Old Trafford, and the lowest at Ollerenshaw.

The degree of humidity was the highest at the Royal Infirmary and the lowest at Old Trafford.

The fall of rain at Ollerenshaw appears to have been excessive as compared with the other stations; the fall upon the 5th being 1·220 ins.; this great fall is no doubt owing to the elevation being considerable.

Ozone occurred in the largest amount at Old Trafford, which is somewhat unusual; it occurred upon every day at the three stations for which observations are given.

G. V. VERNON, F.R.A.S.

Newby Bridge,
August 13th, 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week ending Satu

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1861	" " 185,050													
DISEASES.	POOR LAW DISTRICTS.						PUBLIC INSTITUTIONS.							
								ROYAL INFIRMARY.					CHILDR	
	Ancoats. 1	St. George's. 2	Market Street. 3	St. Jude's. 4	St. Michael's. 5	Total of Districts.	Workhouse. 6	In-patients. 7	Out-patients. 8	District I. 9	District II. 10	District III. 11	St. Mary's Hospital. 12	Clinical 1
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	1	..	..	..	..	..	..	.
Measles	..	..	2	..	1	3	..	..	..	..	..	..	..	.
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	..	..	..	..	1	..	..	..	..	..	1	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhœa	4	3	3	1	4	15	7	..	3	5	2	2	21	1
Dysentery	..	..	..	..	..	..	..	..	1	..	..	..	1	
Continued Fever	..	..	1	..	..	1	..	1	1	..	1	..	5	
Erysipelas	..	..	..	..	..	..	..	1	..	..	..	1	..	
Rheumatism	..	..	..	1	..	1	3	1	12	..	3	1	..	
Neuralgic Affections	..	..	..	..	..	..	..	..	3	..	..	..	..	
Constitutional Syphilis	..	2	..	..	..	2	1	..	5	..	..	..	..	
Phthisis	..	..	..	..	1	1	..	..	16	2	1	1	3	
Insanity	..	..	..	..	..	..	3	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	1	1	3	2	2	9	7	..	67	5	1	2	4	
Pleurisy and Pneumonia	..	..	..	..	..	..	..	..	1	..	..	..	..	
Skin Diseases	2	..	1	1	..	4	9	..	14	..	..	..	..	
Dyspepsia	..	..	..	2	..	2	4	..	37	1	3	..	..	
Accidents and diseases not classified	2	4	5	2	2	15	46	30	242	6	8	6	37	
TOTAL	9	10	15	9	10	53	82	33	402	19	19	13	72	

* 1 case of Cholera, fatal after a few hours.

ANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

y of August, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329			477			646		508				Area in Statute Acres.
70,967			68,209			44,850		21739				Population in 1861.
Public Institutions.			Poor Law Districts.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26		
..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox
..	1	..	1	..	..	1	3	..	..	..	9	Measles
..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	.	1	..	..	..	..	..	..	..	1	Diphtheria
..	3	..	..	..	..	..	2	..	..	..	8	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
2	15	1	2	1	4	1	12	..	7	5	123	Diarrhœa
..	7	..	..	..	2	2	1	..	..	..	17	Dysentery
..	1	..	..	..	..	..	3	..	2	1	18	Continued Fever
..	..	..	..	..	..	..	..	..	..	2	4	Erysipelas
1	2	2	..	..	..	..	3	..	1	..	30	Rheumatism
..	2	..	2	..	..	..	1	..	..	1	10	Neuralgic Affections
..	1	..	1	1	..	..	2	..	..	1	15	Constitutional Syphilis
1	3	..	1	1	..	..	..	..	2	2	38	Phthisis
2	1	..	..	..	..	..	..	1	..	1	9	Insanity
1	9	6	3	..	3	..	2	1	12	..	134	Bronchitis, Influenza, and Catarrah.
..	2	..	..	..	..	..	..	1	..	..	5	Pleurisy & Pneumonia.
..	7	..	..	..	..	..	2	..	..	3	42	Skin Disease.
..	2	..	..	3	2	..	4	..	1	1	65	Dyspepsia
2	42	4	1	3	3	2	30	2	39	†1	526	Accidents and diseases not classified
9	98	13	12	9	14	6	65	5	64	18	1055	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) ,, M. ROWLAND DAY,

(8) (9) (10) (11) Dr. JOHN MEDD, Mr. J. S. DAVIES, ,, W. J. MALLETT,
(12) ,, H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,

(15) Mr. J. TEALE,
(16) ,, T. F. BROWNBILL
(17) ,, J. O. BRADBURY,
(18) ,, W. B. STOTT,
(19) ,, T. G. RICHMOND,
(20) Dr. ALEX. WILSON,

(21) Mr. H. M. WILLIAMSON.
(22) ,, W. B. MIDWOOD,
(23) ,, JOHN RAYNER,
(24) ,, J. M. KIRKMAN.
(25) ,, A. F. PENNINGTON
(26) ,, J. V. L. WESTMACOTT

† 1 slight case of English Cholera.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowei.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	3	1	..	..	..	..	..	..	..	4	2
Whooping-cough	..	..	..	..	3	..	..	1	2	..	6	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	½
Diarrhœa	10	6	3	4	7	4	12	3	5	1	55	47½
Fever	..	..	1	..	1	2	..	..	..	..	4	5½
Diseases of the Lungs	4	5	..	3	2	6	1	1	3	1	26	42½
Other causes	13	14	10	9	14	*13	7	3	18	4	105	120
TOTAL NO. OF DEATHS.	27	28	15	16	27	25	20	8	28	6	200	218
TOTAL NO. OF BIRTHS.	47	40	12	25	22	47	18	25	55	22	313	311

* 3 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.	DISEASES.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.
2	1	2	5	.... Small-pox	12	7	7	26
10	21	6	37	.... Chicken-pox	11	5	..	16
16	37	16	69	..... Measles	15	35	21	71
9	12	14	35	.... Scarlatina	5	7	2	14
3	9	3	15	.... Diphtheria	1	2	1	4
102	115	47	264	.. Whooping-cough ..	48	101	52	201
1	..	..	1	..... Croup	4	2	2	8
219	416	966	1601	.....Diarrhœa.. ...	68	155	338	561
3	3	7	13	.... Dysentery	10	18	40	68
....	..	1	1	..... Cholera	....	3	1	4
20	15	6	41	.... Erysipelas	14	15	11	40
....	..	..	..	.. Puerperal Fever ..	1	2	..	3
23	11	8	42	..... Insanity	38	43	28	109
601	618	344	1563	Bronchitis and Catarrh	662	729	446	1837
11	14	15	40	..... Pleurisy	16	12	11	39
14	12	15	41	... Pneumonia	25	20	24	69
1	7	2	10	.... Carbuncle	3	6	2	11
3417	4329	3385	11131	{ Accidents, and all other Diseases }	3047	3907	2850	9804
4452	5620	4837	14909	..... TOTAL	3980	5069	3836	12885

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, AUGUST 17, 1861. [No. 55.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	NO RETURN.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—		29·723	—	29·726	28·890
Highest (Unreduced)	—		30·070	—	30·050	29·164
Lowest (Unreduced)	—		29·662	—	29·618	28·832
Range	—		0·408	—	0·432	0·332
Temperature.						
Adopted Mean	60·7		61·6	61·3	61·8	58·9
Range for Week	22·0		29·6	30·0	28·0	31·3
Daily Range	11·0		19·3	18·4	13·8	14·8
Maximum in Shade	74·0		76·1	76·0	75·0	74·0
Minimum in Shade	52·0		46·5	46·0	47·0	42·2
Maximum in Sun	—		87·8	92·8	87·6	85·7
Maximum in Sun: Black bulb in Vacuo	—		—	—	—	—
Minimum on Grass	—		32·2	45·0	44·0	45·0
Temperature in Ground at surface	—		61·10	—	—	—
Temperature 6 inches below	—		60·30	—	—	57·70 (a)
Temperature 12 inches below	—		62·14	—	—	56·83 (b)
Temperature of Evaporation	56·1		55·7	—	57·1	55·5
Temperature of Dew Point	52·1		50·7	—	53·1	52·5
Temperature of Air—Dew Point	8·6		10·9	—	5·7	6·4
Hygrometrical condition of the Atmosphere.						
Weight of Vapour in a cubic foot of Air	GRS. 4·36		GRS. 4·15	GRS. —	GRS. 4·41	GRS. 4·37
Required to Saturate do	1·58		1·97	—	1·69	1·21
Weight of a cubic foot of Air	528·1		527·4	—	526·9	515·0
Degree of Humidity (Saturation—1,000)	0·791		0·681	—	0·735	0·795
Water in a vertical column of the Atmosphere	INS. 6·24		INS. 5·11	INS. —	INS. 5·59	INS. 5·48
Elastic force of Vapour	0·451		0·370	—	0·404	0·396
Clouds (Covered—10 Clear—0)	—		4·3	—	4·2	6·8
Prevailing Winds	—		S.W.	—	W.	SW. & W.
Rain	—		0·230	0·210	0·203	0·375
Days on which it fell	—		4	3	4	3
Ozonometer.						
Moffat (0—10)	—		—	—	3·85	2·50
Schonbein (0—10)	—		—	—	—	—
Daily Evaporation	INS. 0·080		INS. 0·178	INS. —	INS. 0·158	INS. 0·102
Weekly Evaporation	0·560		1·246	—	1·106	0·714

(*a*) 3 feet below the surface. (*b*) 4 feet below the surface.

The mean temperature of the week was about 1·6° above the average.

The mean temperature of the week was the highest at Thelwall and the lowest at Ollerenshaw.

The degree of humidity was the highest at Ollerenshaw and the lowest at Sale.

Ozone occurred upon every day at Thelwall and Ollerenshaw.

Newby Bridge,
August 20th, 1861.

G. V. VERNON, F.R.A.S.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Paupe

During the Week ending Saturd

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1861	" " 185,050													
DISEASES.	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
	Ancoats. 1	St. George's. 2	Market Street. 3	St. Jude's. 4	St. Michael's. 5	Total of Districts.	Workhouse. 6	In-patients. 7	Out-patients. 8	District I. 9	District II. 10	District III. 11	St. Mary's Hospital. 12	Clinical Hospital. 13
Small-pox	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	2	..	..	1	3	..	..	..	..	..	..	1	1
Scarlatina	1	..	..	..	..	1	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	3	..	..	..	..	3	6	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	3	4	5	1	3	16	10	..	4	..	3	3	24	9
Dysentery	..	..	1	..	..	1	..	..	3	..	..	..	1	..
Continued Fever	..	1	1	1	..	3	2	1	4	..	1	..	3	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	2	..	1	..	..	3	11	..	9	..	..	..	..	1
Neuralgic Affections	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	2	..	9	1	..	..	..	..
Phthisis	..	..	..	..	1	1	4	..	22	1	..	..	1	1
Insanity	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	3	1	..	2	4	10	10	..	74	2	3	5	4	..
Pleurisy and Pneumonia	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Skin Diseases	..	..	..	..	..	..	15	..	12	..	..	..	..	1
Dyspepsia	..	1	..	..	1	2	4	..	26	..	..	..	2	1
Accidents and diseases not classified	2	3	3	3	8	19	23	29	217	6	9	6	39	*11*
TOTAL	11	12	11	7	18	59	86	31	381	10	17	17	81	26

* 1 case of Cholera.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,

ay of August, 1861.

SALFORD.			HULME.			CHORLTON.		ARDWICK				
... 1,329			.... 477.			.. 646. ..		508.	....	....	.....	Area in Statute Acres.
. 70,967.			.. 68,209. ..			.. 44,850 ..		21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26		
..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	..	..	1	..	..	..	6	Measles
..	..	..	..	..	..	..	..	..	..	..	1	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	2	..	..	..	..	..	1	..	..	..	15	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	10	6	1	2	10	4	10	1	8	3	130	Diarrhœa
..	7	..	..	..	..	..	1	..	1	..	15	Dysentery
..	1	..	..	..	..	..	..	..	2	..	17	Continued Fever
..	..	..	..	..	..	..	1	..	..	..	1	Erysipelas
1	3	..	..	..	1	..	4	2	4	1	41	Rheumatism
..	2	..	..	1	..	..	..	..	..	..	4	Neuralgic Affections
..	..	..	..	..	..	1	1	..	..	1	15	Constitutional Syphilis
..	5	..	1	..	..	..	2	..	6	2	46	Phthisis
2	..	..	..	..	..	..	..	..	..	1	5	Insanity
2	14	3	..	..	4	..	4	..	14	2	152	Bronchitis, Influenza, and Catarrah.
..	..	..	..	..	..	..	..	..	..	..	2	Pleurisy & Pneumonia.
..	4	..	..	..	..	1	2	..	1	4	40	Skin Disease.
2	9	3	..	2	3	2	7	..	2	..	66	Dyspepsia
3	65	2	1	3	6	3	33	1	43	..	523	Accidents and diseases not classified
10	122	14	3	8	24	11	67	4	81	14	1080	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	1	..	..	1	..	1	..	..	..	3	2
Whooping-cough	..	2	..	1	1	1	..	..	..	..	5	4
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	½
Diarrhœa	18	12	8	7	9	5	3	3	4	3	72	52
Fever	1	..	1	2	..	1	..	..	1	..	6	5½
Diseases of the Lungs	7	5	..	6	2	4	1	4	5	3	37	35
Other causes	15	11	19	4	11	*10	†13	10	13	2	108	117
TOTAL NO. OF DEATHS.	41	31	28	20	24	21	18	17	23	8	231	216
TOTAL NO. OF BIRTHS.	37	32	18	16	19	29	26	29	60	18	284	306

* 1 Inquest. † 1 Cholera.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.
Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.	DISEASES.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.
2	1	2	5	.... Small-pox	12	7	7	26
10	21	6	37	.... Chicken-pox	11	5	..	16
16	37	16	69	..... Measles	15	35	21	71
9	12	14	35	.... Scarlatina	5	7	2	14
3	9	3	15	.... Diphtheria	1	2	1	4
102	115	47	264	.. Whooping-cough ..	48	101	52	201
1		..	1	..... Croup	4	2	2	8
219	416	966	1601	.....Diarrhœa.. ...	68	155	338	561
3	3	7	13	.... Dysentery	10	18	40	68
....	..	1	1	..... Cholera	....	3	1	4
20	15	6	41	.... Erysipelas	14	15	11	40
....	..	..	..	.. Puerperal Fever ..	1	2	..	3
23	11	8	42	..... Insanity	38	43	28	109
601	618	344	1563	Bronchitis and Catarrh	662	729	446	1837
11	14	15	40	..... Pleurisy	16	12	11	39
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1	7	2	10	.... Carbuncle	3	6	2	11
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HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. II.] WEEK ENDING SATURDAY, AUGUST 24, 1861. [No. 56.

Meteorological Observations, taken at Manchester and the Neighbourhood.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.		INS.	INS.	INS.	INS.
Mean @ 32° F.	—		29·884	—	29·885	28·982
Highest } Unreduced	—		30·200	—	30·204	29·268
Lowest } Unreduced	—		29·712	—	29·666	28·946
Range	—		0·488	—	0·538	0·322
Temperature.						
Adopted Mean	57·1		58·7	57·3	57·2	55·6
Range for Week	18·0		25·3	25·5	21·5	24·0
Daily Range	9·6		19·0	16·5	13·1	15·2
Maximum in Shade	70·0		70·0	70·5	67·7	79·0
Minimum in Shade	52·0		44·7	45·0	46·2	45·0
Maximum in Sun	—		81·5	86·5	80·3	78·7
Maximum in Sun: Black bulb in Vacuo	—		—	—	—	—
Minimum on Grass	—		30·0	44·0	42·8	42·0
Temperature in Ground at surface	—		57·61	—	—	—
Temperature 6 inches below	—		57·85	—	—	56·40 *(a)*
Temperature 12 inches below	—		60·23	—	—	56·18 *(b)*
Temperature of Evaporation	54·4		54·9	—	53·0	52·8
Temperature of Dew Point	51·9		51·5	—	49·1	50·2
Temperature of Air—Dew Point	5·2		7·2	—	8·1	5·4
Hygrometrical condition of the Atmosphere.	GRS.		GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·31		4·30	—	3·70	4·03
Required to Saturate do	0·91		1·24	—	1·36	0·88
Weight of a cubic foot of Air	533·3		533·1	—	534·8	520·2
Degree of Humidity (Saturation—1,000)	0·829	NO RETURN.	0·770	—	0·740	0·828
	INS.		INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	5·34		5·27	—	4·83	5·03
Elastic force of Vapour	0·386		0·381	—	0·349	0·364
Clouds (Covered—10 Clear—0)	—		5·1	—	6·0	7·8
Prevailing Winds	—		SW.&NW	—	NW.	S.SW.NW
Rain	—		0·990	0·650	0·835	0·540
Days on which it fell	—		6	3	7	6
Ozonometer.						
Moffat (0—10)	—		—	—	5·28	5·88
Schonbein (0—10)	—		—	—	—	—
	INS.		INS.	INS.	INS.	INS.
Daily Evaporation	0·081		0·113	—	0·120	0·079
Weekly Evaporation	0·567		0·791	—	0·840	0·553

(a) 3 feet below the surface. *(b)* 4 feet below the surface.

The mean temperature of the past week was the highest at Sale and the lowest at Ollerenshaw.

The degree of humidity was the highest at the Royal Infirmary and the lowest at Thelwall.

The fall of rain was somewhat unevenly distributed, the largest quantity falling at the lowest levels.

Ozone was found upon every day at Thelwall and Ollerenshaw.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
August 27th, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Paupe

During the Week ending Saturd

	MANCHESTER.													
Area in Statute Acres	..... Manchester Township 1,645													
Population in 1861	..... „ „ 185,050													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	Ancoats.	St. George's.	Market Street.	St. Jude's.	St. Michael's.	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5		6	7	8	9	10	11	12	13
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	1	1	..
Whooping-cough	..	1	..	..	5	6	2	..	..	..	..	..	4	..
Croup	..	..	..	..	..	..	..	..	1	..	1	..	..	..
Diarrhœa.....	2	1	6	2	6	17	5	..	7	1	3	1	25	14
Dysentery	..	..	4	..	..	4	1	..	..	..	..	..	1	1
Continued Fever.....	..	..	3	..	..	3	2	3	1	..	2	1	8	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	1	1	2	..	..	4	6	..	20	1	..	1	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Constitutional Syphilis	..	..	..	..	..	..	1	..	4	1	1	1	1	..
Phthisis	..	..	..	..	..	..	5	..	19	2	..	2	..	..
Insanity	..	..	1	..	..	1	1	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	1	3	3	2	2	11	8	..	34	1	1	5	2	..
Pleurisy and Pneumonia....	..	..	..	..	..	..	2	..	..	..	..	1	..	..
Skin Diseases.....	2	..	..	..	..	2	9	..	6	..	..	..	..	..
Dyspepsia	..	..	..	..	..	..	1	..	27	..	1	2	2	3
Accidents and diseases not classified.....	4	7	5	6	1	23	33	16	248	6	7	7	38	5
TOTAL	10	13	24	10	14	71	76	19	367	12	16	23	82	24

ANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

of August, 1861.

LFORD.			HULME.			CHORL-TON.		ARD-WICK				
1,329	....		.... 477.	....		.. 646.	..	508.	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209.	..		.. 44,850	..	21739	....	....	.....	Population in 1861.
Public Institutions.			Poor Law Districts.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26		
..	..	..	..	..	1	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	..	..	..	..	..	..	1	Measles
..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	2	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	12	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	2	Croup
2	7	10	4	3	10	1	16	..	6	4	137	Diarrhœa
1	4	..	..	..	1	..	3	..	1	..	17	Dysentery
..	4	..	2	2	..	..	1	..	..	..	29	Continued Fever
2	1	..	..	..	..	..	..	..	..	..	3	Erysipelas
..	4	..	..	1	..	..	3	..	2	2	44	Rheumatism
..	3	..	1	..	..	..	..	..	..	..	6	Neuralgic Affections
..	..	..	..	..	..	1	1	..	3	..	14	Constitutional Syphilis
..	3	..	..	..	..	..	2	..	6	..	40	Phthisis
1	..	..	..	..	..	..	..	..	..	1	4	Insanity
..	6	3	2	..	8	..	3	2	20	..	107	Bronchitis, Influenza, and Catarrah.
..	..	..	..	1	..	..	..	..	..	..	4	Pleurisy & Pneumonia.
1	9	..	..	..	..	..	4	..	..	24	55	Skin Disease.
..	5	2	..	1	1	..	5	2	2	1	59	Dyspepsia
1	64	4	4	4	6	..	42	3	54	..	571	Accidents and diseases not classified
8	110	19	13	12	27	2	80	7	94	32	1109	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
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(20) Dr. ALEX. WILSON,

(21) Mr. H. M. WILLIAMSON.
(22) " W. B. MIDWOOD,
(23) " JOHN RAYNER,
(24) " J. M. KIRKMAN.
(25) " A. F. PENNINGTON
(26) " J. V. L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	1	..	..	..	..	..	..	..	..	..	1	..
Measles	1	2	1	..	..	..	..	1	..	..	5	3
Whooping-cough	1	1	..	1	3	..	..	..	..	..	6	5
Scarlatina	..	..	..	..	..	..	..	..	1	..	1	½
Diarrhœa	11	14	11	6	9	7	10	4	9	6	87	60
Fever	..	..	..	2	..	..	1	..	1	..	4	5
Diseases of the Lungs	5	2	..	2	1	6	3	5	7	1	32	33½
Other causes	14	4	19	7	11	*12	5	8	17	8	105	117
TOTAL NO. OF DEATHS.	33	23	31	18	24	25	19	18	35	15	241	224
TOTAL NO. OF BIRTHS.	40	30	13	13	25	29	27	28	51	29	285	305

* 1 Inquest.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.	DISEASES.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.
2	1	2	5	.... Small-pox	12	7	7	26
10	21	6	37	.... Chicken-pox	11	5	..	16
16	37	16	69	..... Measles	15	35	21	71
9	12	14	35	.... Scarlatina	5	7	2	14
3	9	3	15	.... Diphtheria	1	2	1	4
102	115	47	264	.. Whooping-cough ..	48	101	52	201
1	..	..	1	..... Croup	4	2	2	8
219	416	966	1601	.....Diarrhœa.. ...	68	155	338	561
3	3	7	13	.... Dysentery	10	18	40	68
....	..	1	1	..... Cholera	....	3	1	4
20	15	6	41	.... Erysipelas	14	15	11	40
....	..	..	..	.. Puerperal Fever ..	1	2	..	3
23	11	8	42	..... Insanity	38	43	28	109
601	618	344	1563	Bronchitis and Catarrh	662	729	446	1837
11	14	15	40	..... Pleurisy	16	12	11	39
14	12	15	41	... Pneumonia	25	20	24	69
1	7	2	10	.... Carbuncle	3	6	2	11
3417	4329	3385	11131	Accidents, and all other Diseases	3047	3907	2850	9804
4452	5620	4837	14909	..... TOTAL	3980	5069	3836	12885

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, AUGUST 31, 1861. [No. 57.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·959	29·964	—	29·996	—
Highest (Unreduced)	—	30·231	30·215	—	30·238	—
Lowest (Unreduced)	—	29·748	29·756	—	29·750	—
Range	—	0·483	0·459	—	0·488	—
Temperature.						
Adopted Mean	59·8	61·2	59·7	59·2	59·2	57·1
Range for Week	23·0	36·3	35·8	35·4	32·6	27·9
Daily Range	8·2	18·5	19·5	14·7	14·2	12·2
Maximum in Shade	77·0	81·3	77·8	79·9	76·8	74·0
Minimum in Shade	54·0	45·0	42·0	44·5	44·2	46·1
Maximum in Sun	—	96·6	84·0	96·0	84·8	86·0
Maximum in Sun: Black bulb in Vacuo	—	112·5	—	—	—	—
Minimum on Grass	—	42·3	26·5	43·6	39·3	44·3
Temperature in Ground at surface	—	57·78	59·80	—	—	—
Temperature 6 inches below	—	58·12	59·37	—	—	55·93 *(a)*
Temperature 12 inches below	—	59·02	61·04	—	—	55·61 *(b)*
Temperature of Evaporation	56·5	57·8	54·7	—	55·9	54·2
Temperature of Dew Point	53·6	54·9	50·3	—	53·0	51·5
Temperature of Air—Dew Point	6·2	6·3	9·4	—	6·2	5·6
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·59	4·80	4·07	—	4·53	4·24
Required to Saturate do	1·17	1·24	1·67	—	1·11	1·05
Weight of a cubic foot of Air	533·0	533·0	533·5	—	534·3	505·1
Degree of Humidity (Saturation—1,000)	0·810	0·800	0·710	—	0·804	0·817
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	5·70	5·96	5·05	—	5·57	5·27
Elastic force of Vapour	0·412	0·431	0·365	—	0·403	0·381
Clouds (Covered—10 Clear—0)	—	5·8	2·9	—	5·6	7·9
Prevailing Winds	—	W.S.W.	W.S.W.	—	N.W.	WNW&SW
Rain	—	0·040	0·160	0·160	0·257	0·510
Days on which it fell	—	1	3	4	4	4
Ozonometer.						
Moffat (0—10)	—	0·43	—	—	2·57	2·93
Schonbein (0—10)	—	0·00	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·102	0·110	0·147	—	0·100	0·086
Weekly Evaporation	0·714	0·770	1·029	—	0·700	0·602

(a) 3 feet below the surface. *(b)* 4 feet below the surface.

There were 4 barometric oscillations during the week, the amount being 1·230 ins. There were also 4 temperature oscillations, the amount being 21·8°.

The mean temperature of the week was 3·9° above the average, and 6·4° above the corresponding week last year.

The mean temperature was the highest at Old Trafford, and the lowest at Ollerenshaw.

The degree of humidity was the least at Sale, and the highest at Ollerenshaw.

The fall of rain (in August) at the various Stations at which guages are placed, was as follows:—

	Fall in Inches.	Days on which it Fell.
Old Trafford	2·232	15
Sale	2·440	20
Bowdon	1·850	17
Thelwall	2·144	22

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
September 3rd, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Paup

During the Week ending Satur

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1861	" " 185,050													
DISEASES.	POOR LAW DISTRICTS.						PUBLIC INSTITUTIONS.							
								ROYAL INFIRMARY.					CHILDRE	
	Ancoats.	St. George's.	Market Street.	St. Jude's.	St. Michael's.	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital
	1	2	3	4	5		6	7	8	9	10	11	12	13
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Scarlatina	..	2	..	..	..	2	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Whooping-cough	..	..	1	..	4	5	1	..	1	..	..	..	9	3
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	2	3	2	2	4	13	..	..	11	1	..	..	16	1
Dysentery	..	..	3	..	..	3	7	..	..	..	..	..	..	
Continued Fever	..	4	..	..	1	5	5	2	2	..	1	..	6	.
Erysipelas	..	..	..	..	..	..	..	..	4	..	..	..	..	.
Rheumatism	..	1	..	..	..	1	5	..	4	1	..	..	..	.
Neuralgic Affections	..	..	..	..	..	..	..	..	5	..	..	..	..	.
Constitutional Syphilis	..	..	..	..	..	..	1	1	10	1	3	2	..	.
Phthisis	..	..	..	..	1	1	4	..	23	..	..	2	2	
Insanity	..	1	..	..	..	1	3	..	..	..	..	..	..	.
Bronchitis, Influenza & Catarrh	..	3	5	..	3	11	8	..	34	3	1	4	2	.
Pleurisy and Pneumonia	..	..	..	..	..	..	1	..	..	..	..	..	1	.
Skin Diseases	1	..	..	..	1	2	7	..	9	..	..	..	3	.
Dyspepsia	..	..	..	..	..	..	2	..	28	..	1	2	1	
Accidents and diseases not classified	5	4	7	1	3	20	30	19	263	14	8	12	40	
TOTAL	8	18	18	3	17	64	74	22	395	20	14	22	80	2

ANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

of August, 1861.

LFORD.			HULME.			CHORL-TON.		ARD-WICK				
1,329	....		.... 477.	....		.. 646.	..	508.	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209.	..		.. 44,850	..	21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26		
..	..	..	..	..	1	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	1	..	..	..	6	..	..	..	8	Measles
..	2	..	..	..	..	..	..	..	..	..	4	Scarlatina
..	..	.	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	..	..	..	..	2	..	..	1	..	22	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
1	6	6	1	2	3	..	10	..	7	..	93	Diarrhœa
..	2	..	..	..	..	..	2	..	..	..	15	Dysentery
..	3	..	1	1	..	..	3	..	4	1	34	Continued Fever
..	1	..	..	..	..	..	..	..	..	..	5	Erysipelas
1	4	..	..	..	..	..	3	..	3	..	22	Rheumatism
..	4	..	1	..	..	1	2	..	..	..	13	Neuralgic Affections
..	..	..	..	..	..	..	1	..	2	..	21	Constitutional Syphilis
..	2	..	..	1	1	1	..	..	4	..	42	Phthisis
1	..	..	1	..	..	..	..	..	..	..	7	Insanity
..	7	10	..	4	5	..	..	1	16	..	106	Bronchitis, Influenza, and Catarrah.
..	..	..	..	..	..	..	..	..	..	..	2	Pleurisy & Pneumonia.
..	8	..	..	..	..	..	1	..	..	2	33	Skin Disease.
..	9	2	..	1	..	..	1	1	2	..	51	Dyspepsia
3	54	3	1	1	4	3	29	3	54	6	582	Accidents and diseases not classified
6	102	21	6	10	14	7	58	5	93	9	1062	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
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(26) ,, J.V.L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	2	..	..	2	..	..	4	3½
Whooping-cough	1	2	..	1	2	2	1	4	..	..	13	6½
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	16	7	4	4	10	10	4	1	11	2	69	69
Fever	..	1	5	..	..	..	2	..	4	1	13	4
Diseases of the Lungs	6	3	..	1	4	6	1	4	8	..	33	32
Other causes	6	19	8	6	13	*5	10	9	20	6	102	106
TOTAL NO. OF DEATHS.	29	32	17	12	31	23	18	20	43	9	234	221
TOTAL NO. OF BIRTHS.	33	29	24	18	16	37	32	29	57	13	288	300

* 1 Inquest.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.	DISEASES.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.
2	1	2	5	.... Small-pox	12	7	7	26
10	21	6	37	.... Chicken-pox	11	5	..	16
16	37	16	69	..... Measles	15	35	21	71
9	12	14	35	.... Scarlatina	5	7	2	14
3	9	3	15	.... Diphtheria	1	2	1	4
102	115	47	264	.. Whooping-cough ..	48	101	52	201
1	..	..	1	..... Croup	4	2	2	8
219	416	966	1601	.....Diarrhœa.. ...	68	155	338	561
3	3	7	13	.... Dysentery	10	18	40	68
....	..	1	1	..... Cholera	....	3	1	4
20	15	6	41	.... Erysipelas	14	15	11	40
....	..	..	..	.. Puerperal Fever ..	1	2	..	3
23	11	8	42	..... Insanity	38	43	28	109
601	618	344	1563	Bronchitis and Catarrh	662	729	446	1837
11	14	15	40	..... Pleurisy	16	12	11	39
14	12	15	41	... Pneumonia	25	20	24	69
1	7	2	10	.... Carbuncle	3	6	2	11
3417	4329	3385	11131	Accidents, and all other Diseases	3047	3907	2850	9804
4452	5620	4837	14909	..... TOTAL	3980	5069	3836	12885

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, SEPTEMBER 7, 1861. [No. 58.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw, A. NEILD, Esq.
Barometer.	INS.	INS.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·711	29·731	—	29·737	—
Highest (Unreduced)	—	30·022	30·010	—	30·018	—
Lowest (Unreduced)	—	29·622	29·644	—	29·654	—
Range	—	0·400	0·366	—	0·364	—
Temperature.						
Adopted Mean	59·5	60·1	59·7	60·0	60·4	58·4
Range for Week	21·0	31·3	31·7	32·1	29·3	25·5
Daily Range	10·0	15·0	18·5	17·3	14·5	15·6
Maximum in Shade	75·0	78·3	75·2	78 5	73·5	73·5
Minimum in Shade	54·0	47·0	43·5	46·4	44·2	48·0
Maximum in Sun	—	93·0	91·0	96·2	84·0	87·7
Maximum in Sun: Black bulb in Vacuo	—	108·0	—	—	—	—
Minimum on Grass	—	44·7	29·2	47·0	41·5	42·5
Temperature in Ground at surface	—	56·87	58·76	—	—	—
Temperature 6 inches below	—	58·13	59·54	—	—	56·78 *(a)*
Temperature 12 inches below	—	58·99	61·29	—	—	56·33 *(b)*
Temperature of Evaporation	56·1	57·0	56·4	—	56·0	55·8
Temperature of Dew Point	53·1	54·3	53·5	—	52·2	53·5
Temperature of Air—Dew Point	6·4	5·8	6·2	—	8·2	4·9
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·53	4·69	4·60	—	4·36	4·56
Required to Saturate do	1·17	1·07	1·16	—	1·52	0·92
Weight of a cubic foot of Air	529·5	528·4	529·2	—	528·6	519·8
Degree of Humidity (Saturation—1,000)	0·824	0·815	0·809	—	0·740	0·838
	INS.	INS.	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	5·59	5·84	5·67	—	5·41	5·67
Elastic force of Vapour	0·404	0·422	0·410	—	0·391	0·410
Clouds (Covered—10 Clear—0)	—	6·1	4·2	—	5·5	7·5
Prevailing Winds	—	S.W.	NW.,SW.	—	W.S.	W.S.W.
Rain	—	0·974	1·380	1·220	1·029	1·250
Days on which it fell	—	5	6	6	6	4
Ozonometer.						
Moffat (0—10)	—	2·71	—	—	4·07	5·21
Schonbein (0—10)	—	0·57	—	—	—	—
	INS.	INS.	INS.	INS.	INS.	INS.
Daily Evaporation	0·105	0·098	0·102	—	0·135	0·074
Weekly Evaporation	0·735	0·686	0·714	—	0·945	0·518

(a) 3 feet below the surface. *(b)* 4 feet below the surface.

There were 4 barometric oscillations during the week, the amount being 1·464 inches; there were also 4 temperature oscillations, the amount being 21·0°.

The mean temperature of the week was 3·0° above the mean temperature of the same week in the last twelve years, and 4·4° above the corresponding week last year.

The mean temperature was the highest at Thelwall, and the lowest at Ollerenshaw.

The greatest weekly range of temperature occurred at Bowdon, and the least at the Royal Infirmary.

The rain fall was somewhat unevenly distributed during the week, the least fall being at Old Trafford, and the greatest at Sale.

Ozone occurred upon 4 days at Old Trafford, and upon every day at Thelwall and Ollerenshaw.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
September 11th, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Paupe

During the Week ending Saturd

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1861	" " 185,050													
DISEASES.	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
	Ancoats.	St. George's.	Market Street.	St. Jude's.	St. Michael's.	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5		6	7	8	9	10	11	12	13
Small-pox	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	2	..	..	1	3	..	..	..	..	..	..	1	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	2	..	..	3	5	..	..	..	..	..	..	3	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	1	5	3	2	5	16	2	..	6	2	2	..	27	13
Dysentery	..	..	..	..	..	..	..	..	2	..	..	..	1	1
Continued Fever	..	..	2	..	1	3	4	9	..	..	1	2	2	..
Erysipelas	..	..	1	..	..	1	..	..	..	..	..	..	1	..
Rheumatism	..	..	3	1	..	4	6	1	5	1	1	2	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	2	..	2	..	..	1
Constitutional Syphilis	..	..	..	..	..	..	7	..	10	..	1	1	1	..
Phthisis	..	1	..	..	1	2	1	..	18	1	..	2	1	..
Insanity	..	1	2	..	1	4	3	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	1	5	11	..	1	18	4	..	52	4	2	4	8	2
Pleurisy and Pneumonia	..	..	1	..	..	1	2	..	..	..	..	1	..	..
Skin Diseases	..	..	..	..	..	..	16	1	7	..	..	..	2	2
Dyspepsia	..	..	..	1	..	1	3	..	16	1	1	..	2	2
Accidents and diseases not classified	4	2	3	2	12	23	43	17	244	12	5	11	49	*4
TOTAL	6	18	26	6	25	81	91	29	362	21	15	23	99	26

* 1 Case each of Cholera.

ANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

of September, 1861.

LFORD.			HULME.			CHORL-TON.		ARD-WICK				
1,329	....		.... 477.	....		.. 646.	..	508.	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209.	..		.. 44,850	..	21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26		
..	..	.	..	..	1	..	..	..	..	..	2	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	1	1	2	1	..	1	†1	11	Measles
..	1	..	..	..	..	..	..	..	..	†1	3	Scarlatina
..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	3	..	..	1	13	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
3	10	16	2	1	2	4	11	..	19	1	131	Diarrhœa
..	1	..	..	..	3	..	..	..	..	..	8	Dysentery
..	13	..	1	1	..	2	1	..	4	3	46	Continued Fever
1	1	..	..	1	..	..	..	..	..	..	5	Erysipelas
..	11	1	..	..	1	..	1	..	2	1	38	Rheumatism
..	1	..	..	..	..	..	..	..	..	..	6	Neuralgic Affections
..	..	..	..	..	..	..	2	..	3	2	29	Constitutional Syphilis
..	2	..	1	1	..	..	1	..	4	..	34	Phthisis
3	..	..	..	..	..	..	..	..	2	1	13	Insanity
1	15	5	1	..	8	..	3	1	17	..	146	Bronchitis, Influenza, and Catarrah.
..	..	1	..	..	..	..	2	..	..	..	7	Pleurisy & Pneumonia.
..	10	..	..	..	..	..	2	..	..	3	43	Skin Disease.
..	2	..	..	1	2	..	4	..	1	..	36	Dyspepsia
4	86	3	5	7	2	*5	39	2	52	..	620	Accidents and diseases not classified
12	153	26	10	13	20	13	70	3	96	14	1191	TOTAL.

† Adult cases.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) ,, M. ROWLAND DAY,

(8) } Dr. JOHN MEDD,
(9) } Mr. J. S. DAVIES,
(10) } ,, W. J. MALLETT,
(11) }
(12) ,, H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,

(15) Mr. J. TEALE,
(16) ,, T. F. BROWNBILL
(17) ,, J. O. BRADBURY,
(18) ,, W. B. STOTT,
(19) ,, T. G. RICHMOND,
(20) Dr. ALEX. WILSON,

(21) Mr. H. M. WILLIAMSON.
(22) ,, W. B. MIDWOOD,
(23) ,, JOHN RAYNER,
(24) ,, J. M. KIRKMAN.
(25) ,, A. F. PENNINGTON
(26) ,, J.V.L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	1	..	..	2	..	..	..	..	..	3	4
Whooping-cough	..	1	..	..	2	..	..	..	3	..	6	7½
Searlatina	..	..	..	..	..	..	1	..	..	..	1	..
Diarrhœa	16	13	3	4	9	2	7	6	9	4	73	71
Fever	1	2	1	..	..	4	..	1	2	..	11	7
Diseases of the Lungs	6	2	..	2	3	6	2	1	3	1	26	32
Other causes	15	16	17	10	4	*6	7	4	16	†9	104	105
TOTAL NO. OF DEATHS.	38	35	21	16	20	18	17	12	33	14	224	226½
TOTAL NO. OF BIRTHS.	45	33	9	18	20	27	20	41	62	15	290	292

* 1 Inquest. † 1 Cholera.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.
Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.	DISEASES.	4 Weeks ending 25th May.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	TOTAL.
2	1	2	5	.... Small-pox	12	7	7	26
10	21	6	37	.... Chicken-pox	11	5	..	16
16	37	16	69	..... Measles	15	35	21	71
9	12	14	35	.... Scarlatina	5	7	2	14
3	9	3	15	.... Diphtheria	1	2	1	4
102	115	47	264	.. Whooping-cough ..	48	101	52	201
1	..	..	1	..... Croup	4	2	2	8
219	416	966	1601	.....Diarrhœa.. ...	68	155	338	561
3	3	7	13	.... Dysentery	10	18	40	68
....	..	1	1	..... Cholera	....	3	1	4
20	15	6	41	.... Erysipelas	14	15	11	40
....	..	..	..	.. Puerperal Fever ..	1	2	..	3
23	11	8	42	..... Insanity	38	43	28	109
601	618	344	1563	Bronchitis and Catarrh	662	729	446	1837
11	14	15	40	..... Pleurisy	16	12	11	39
14	12	15	41	... Pneumonia	25	20	24	69
1	7	2	10	.... Carbuncle	3	6	2	11
3417	4329	3385	11131	Accidents, and all other Diseases	3047	3907	2850	9804
4452	5620	4837	14909	..... TOTAL	3980	5069	3836	12885

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HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, SEPTEMBER 14, 1861. [No. 59.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.		INS.	INS.
Mean @ 32° F	—	29·754	29·759		29·770	28·920
Highest (Unreduced)	—	30·060	30·060		30·094	29·160
Lowest (Unreduced)	—	29·472	29·506		29·500	28·648
Range	—	0·588	0·554		0·594	0·512
Temperature.						
Adopted Mean	55·8	55·4	55·2		54·9	53·0
Range for Week	14·5	24·3	27·2		22·0	20·2
Daily Range	11·0	18·1	20·1		14·7	12·7
Maximum in Shade	65·5	69·3	70·4		66·0	63·2
Minimum in Shade	51·0	45·0	43·2		44·0	43·0
Maximum in Sun	—	89·4	81·0		76·0	81·5
Maximum in Sun: Black bulb in Vacuo	—	99·8	—		—	—
Minimum on Grass	—	43·5	26·5		38·0	46·0
Temperature in Ground at surface	—	53·30	54·05		—	—
Temperature 6 inches below	—	54·19	55·34		—	54·90 *(a)*
Temperature 12 inches below	—	55·99	57·97		—	54·96 *(b)*
Temperature of Evaporation	53·1	52·9	52·3		53·2	50·6
Temperature of Dew Point	50·6	50·5	49·5		51·5	46·4
Temperature of Air—Dew Point	5·2	4·9	5·7		3·4	48·2
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·15	4·13	3·97		4·28	3·78
Required to Saturate do	0·83	0·81	0·95		0·60	0·72
Weight of a cubic foot of Air	533·1	534·4	534·7		535·0	522·0
Degree of Humidity (Saturation—1,000)	0·836	0·844	0·818		0·884	0·836
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	5·10	5·08	4·91		5·27	4·67
Elastic force of Vapour	0·369	0·367	0·355		0·381	0·338
Clouds (Covered—10 Clear—0)	—	7·9	4·3		7·8	8·0
Prevailing Winds	—	SW., SE.	S.W.		SW., NW.	SW., SE.
Rain	—	1·021	1·110		1·176	0·890
Days on which it fell	—	5	5		6	3
Ozonometer.						
Moffat (0—10)	—	1·71	—		4·07	4·07
Schonbein (0—10)	—	0·93	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·077	0·072	0·081		0·050	0·065
Weekly Evaporation	0·539	0·504	0·567		0·350	0·455

NO RETURN.

(*a*) 3 feet below the surface. (*b*) 4 feet below the surface.

There were 4 barometric oscillations during the week, the amount being 1·173 inches; there were 5 temperature oscillations, the amount being 6·2°.

The mean temperature of the week was 0·7° below the average of the last twelve years, and 5·7° above the corresponding week last year.

It will be noted that, during the past week, the mean temperature of Manchester has been in excess of that of the country round, and this will become more marked as the season advances.

The degree of humidity has been the highest at Thelwall, and the least at Sale.

The fall of rain during the week has been very large, and at times fell very heavily.

Ozone occurred upon two days at Old Trafford, and every day at Thelwall and Ollerenshaw.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
September 17th, 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week ending Satu

	MANCHESTER.													
Area in Statute Acres	..... Manchester Township 1,645													
Population in 1861	..... „ „ 185,050													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childr	
DISEASES.	Ancoats.	St. George's.	Market Street.	St. Jude's.	St. Michael's.	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical
	1	2	3	4	5		6	7	8	9	10	11	12	1
Small-pox	..	..	*1	..	..	1	..	..	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Measles	..	2	..	..	4	6	..	..	..	..	..	..	2	.
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	3	1	..	2	6	..	..	..	..	..	..	2	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa.....	..	5	3	..	6	14	5	..	10	4	2	3	30	1
Dysentery	..	..	..	..	..	..	..	..	1	..	1	..	..	
Continued Fever.....	..	4	4	..	2	10	4	6	..	..	2	..	4	.
Erysipelas	..	..	..	..	..	..	1	..	3	2	..	..	1	.
Rheumatism	..	1	..	..	1	2	5	1	19	..	3	3	..	.
Neuralgic Affections	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Constitutional Syphilis	..	..	..	..	..	..	4	..	3	..	1	1	1	
Phthisis	..	..	..	..	1	1	3	..	29	4	1	2	4	
Insanity	..	..	..	..	..	..	3	..	..	..	..	..	..	.
Bronchitis, Influenza & Catarrh	..	1	..	..	3	4	8	..	42	6	1	5	10	
Pleurisy and Pneumonia....	..	2	..	..	..	2	2	..	..	..	..	..	1	.
Skin Diseases.....	2	..	..	..	..	2	12	..	6	..	..	..	4	.
Dyspepsia	1	..	..	..	..	1	1	1	30	2	..	1	3	
Accidents and diseases not classified.....	6	3	6	..	9	24	36	25	237	3	2	15	59	
TOTAL	9	21	15	..	28	73	84	33	371	21	13	30	121	2

* Not vaccinated.

SANITARY ASSOCIATION.

and Public Institutions of Manchester and adjoining Districts,

of September, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329	....		.... 477.	....		.. 646.	..	508.	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209.	..		.. 44,850	..	21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anccats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26		
..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	..	..	1	..	..	..	9	Measles
..	..	..	..	..	..	..	1	..	1	..	2	Scarlatina
..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	1	..	..	..	..	..	5	..	..	..	15	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
2	1	6	1	..	5	3	7	2	4	2	119	Diarrhœa
..	..	..	..	..	1	..	..	1	..	..	5	Dysentery
..	3	..	2	4	3	1	4	3	3	2	53	Continued Fever
..	..	..	..	..	..	..	..	..	..	1	8	Erysipelas
1	5	3	1	2	..	1	2	..	4	1	45	Rheumatism
..	3	..	..	..	..	..	..	..	..	..	3	Neuralgic Affections
..	..	..	..	..	..	..	2	..	3	1	18	Constitutional Syphilis
..	3	..	..	..	..	..	2	..	6	..	58	Phthisis
1	..	1	..	..	..	..	..	..	1	..	8	Insanity
1	5	5	..	..	5	..	6	..	14	1	116	Bronchitis, Influenza, and Catarrah.
..	..	..	..	..	..	..	1	..	..	..	6	Pleurisy & Pneumonia.
..	5	3	..	..	..	..	2	..	..	4	38	Skin Disease.
..	7	..	1	1	1	..	1	..	2	..	54	Dyspepsia
9	97	1	2	2	5	2	33	2	53	4	625	Accidents and diseases not classified
14	130	19	7	9	20	7	67	8	91	16	1183	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) ,, M. ROWLAND DAY,

(8) } Dr. JOHN MEDD,
(9) } Mr. J. S. DAVIES,
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(11) }
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(20) Dr. ALEX. WILSON,

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(22) ,, W. B. MIDWOOD,
(23) ,, JOHN RAYNER,
(24) ,, J. M. KIRKMAN.
(25) ,, A. F. PENNINGTON
(26) ,, J. V. L. WESTMACOTT

|| Return not received.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	1	..	1	4
Whooping-cough	1	1	..	..	1	1	..	..	..	..	4	7½
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	½
Diarrhœa	17	13	5	6	8	10	7	5	12	3	86	75
Fever	2	..	2	..	..	..	1	2	2	1	10	8½
Diseases of the Lungs	7	2	..	2	3	..	2	4	8	..	28	32
Other causes	15	15	34	8	4	15	9	14	26	2	142	105
TOTAL NO. OF DEATHS.	42	31	41	16	16	26	19	25	49	6	271	232½
TOTAL NO. OF BIRTHS.	35	34	19	15	20	30	21	19	50	32	275	287

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

5 Weeks ending 29th June.	4 Weeks ending 27th July.	5 weeks ending 31st August.	TOTAL.	DISEASES.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	5 Weeks ending 31st August.	TOTAL.
1	2	1	4	.... Small-pox	7	7	3	17
21	6	9	36	.... Chicken-pox	5	..	1	6
37	16	17	70	..... Measles	35	21	31	87
12	14	20	46	.... Scarlatina	7	2	5	14
9	3	....	12	.... Diphtheria	2	1	4	7
115	47	60	222	.. Whooping-cough ..	101	52	66	219
..	..	1	1	..... Croup	2	2	3	7
416	966	2386	3768	.....Diarrhœa.. ...	155	338	629	1122
3	7	9	19	.... Dysentery	18	40	79	137
..	1	1	2	..... Cholera	3	1	6	10
15	6	17	38	.... Erysipelas	15	11	15	41
..	..	....	..	.. Puerperal Fever ..	2	..	....	2
11	8	17	36	..... Insanity	43	28	32	103
618	344	318	1280	Bronchitis and Catarrh	729	446	598	1773
14	15	13	42	..... Pleurisy	12	11	17	84
12	15	16	43	... Pneumonia	20	24		
7	2	9	18	.... Carbuncle	6	2	....	8
4329	3385	4204	11918	Accidents, and all other Diseases	3907	2850	3651	10408
5620	4837	7098	17555	..... TOTAL	5069	3836	5140	14045

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, SEPTEMBER 21, 1861. [No. 60.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.		INS.	INS.
Mean @ 32° F.	—	29·807	29·819		29·828	28·958
Highest (Unreduced)	—	30·142	30·220		30·172	29·296
Lowest (Unreduced)	—	29·422	29·486		29·450	28·728
Range	—	0·720	0·734		0·722	0·568
Temperature.						
Adopted Mean	52·5	52·9	52·3		52·6	50·0
Range for Week	16·0	24·0	27·8		18·3	20·7
Daily Range	10·8	17·3	17·3		13·7	13·0
Maximum in Shade	62·0	68·0	65·0		62·3	63·2
Minimum in Shade	46·0	44·0	37·2		43·5	42·5
Maximum in Sun	—	81·0	77·0		72·5	70·0
Maximum in Sun: Black bulb in Vacuo	—	92·0	—		—	—
Minimum on Grass	—	38·0	21·2		39·0	37·5
Temperature in Ground at surface	—	51·25	51·98		—	—
Temperature 6 inches below	—	52·22	53·24		—	—
Temperature 12 inches below	—	54·08	55·57		—	—
Temperature of Evaporation	50·0	50·7	49·9		50·4	47·9
Temperature of Dew Point	47·5	48·5	48·1		48·2	45·7
Temperature of Air—Dew Point	5·0	4·4	4·2		4·4	4·3
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	3·70	3·83	3·74		3·80	3·48
Required to Saturate do	0·75	0·66	0·72		0·66	0·62
Weight of a cubic foot of Air	538·4	538·0	539·0		538·8	526·0
Degree of Humidity (Saturation—1,000)	0·830	0·855	0·839		0·852	0·854
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	4·55	4·73	4·65		4·67	4·62
Elastic force of Vapour	0·329	0·342	0·336		0·338	0·334
Clouds (Covered—10 Clear—0)	—	7·9	4·4		6·5	7·5
Prevailing Winds	—	NW., SW.	SW., NW.		NW., S.	N.
Rain	—	1·121	0·800		0·606	2·140
Days on which it fell	—	3	4		4	3
Ozonometer.						
Moffat (0—10)	—	1·43	—		4·36	2·64
Schonbein (0—10)	—	0·71	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·067	0·059	0·057		0·059	0·027
Weekly Evaporation	0·469	0·413	0·399		0·413	0·189

NO RETURN.

There were 4 barometric oscillations during the week, the amount being 1·445 inches. There were 7 temperature oscillations, the amount being 20·8°.

The mean temperature of the week was 1·7° below the average of the last twelve years, and 0·6° below the corresponding week last year.

The mean temperature has been nearly uniform at all the stations.

The fall of rain has again been large, this being the third week successively in which an inch has been collected at Old Trafford: the total fall for the three weeks being 3·116 inches.

Ozone occurred upon two days at Old Trafford, and every day at Thelwall and Ollerenshaw.

Upon the 15th inst., rain fell at Ollerenshaw, 1·620 inches in amount.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
September 25th, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Paup

During the Week ending Saturd

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1861	" " 185,050													
DISEASES.	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
	Ancoats. 1	St. George's. 2	Market Street. 3	St. Jude's. 4	St. Michael's. 5	Total of Districts.	Workhouse. 6	In-patients. 7	Out-patients. 8	District I. 9	District II. 10	District III. 11	St. Mary's Hospital. 12	Clinical 13
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	1	..	..	1	2	..	..	..	..	..	..	..	1
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1	1	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	1	..	3	4	1	..	..	..	..	..	6	2
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	..	2	2	2	3	9	7	..	8	..	1	..	20	
Dysentery	..	..	2	..	..	2	2	1	..	..	..	..	2	
Continued Fever	1	..	2	1	2	6	2	5	..	..	2	1	2	
Erysipelas	..	..	..	..	..	..	..	..	2	1	..	2	..	.
Rheumatism	..	..	..	..	..	..	3	3	19	1	3	1	..	.
Neuralgic Affections	..	..	..	..	..	..	..	..	2	..	..	..	..	
Constitutional Syphilis	..	..	1	..	2	3	4	..	3	..	..	..	1	.
Phthisis	..	..	..	..	..	..	1	..	22	1	2	..	1	.
Insanity	..	..	1	..	..	1	3	..	..	..	..	..	..	.
Bronchitis, Influenza & Catarrh	2	3	1	1	3	10	8	1	47	6	5	9	8	.
Pleurisy and Pneumonia	..	..	..	..	..	..	..	..	..	..	1	..	1	.
Skin Diseases	..	..	..	..	..	..	12	..	7	..	..	..	2	
Dyspepsia	..	..	..	..	..	..	5	1	20	..	1	2	1	
Accidents and diseases not classified	5	6	1	4	13	29	42	22	242*	8	10	16	54	
TOTAL	8	12	11	8	27	66	90	33	372	17	25	32	100	2

* 1 Case of Cholera.

ANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

of September, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329	....		.... 477.	....		.. 646.	..	508.	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209.	..		.. 44,850	..	21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anccats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26		
..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	1	1	..	5	..	..	..	10	Measles
..	..	..	..	..	..	..	..	..	..	..	2	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	1	..	..	..	..	..	4	..	..	..	19	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
2	10	3	..	..	3	1	11	..	4	2	94	Diarrhœa
..	1	..	1	..	..	..	..	..	1	..	15	Dysentery
1	7	..	1	2	5	..	3	1	..	1	41	Continued Fever
..	1	..	..	..	1	..	..	..	..	..	7	Erysipelas
..	6	2	..	1	1	..	2	1	2	2	48	Rheumatism
..	6	..	..	..	..	..	..	..	..	..	9	Neuralgic Affections
..	..	..	..	1	..	..	1	..	..	..	14	Constitutional Syphilis
..	5	..	..	..	..	2	2	..	3	2	41	Phthisis
1	..	..	..	..	..	..	..	..	..	2	7	Insanity
4	32	8	1	..	5	..	6	1	10	..	162	Bronchitis, Influenza, and Catarrah.
..	..	..	1	..	..	..	2	..	3	..	8	Pleurisy & Pneumonia.
2	2	..	..	..	..	1	1	..	1	5	37	Skin Disease.
..	2	1	..	1	1	2	3	..	3	..	44	Dyspepsia
3	99	3	..	3	3	3	24	3	60	3	641	Accidents and diseases not classified
13	172	17	4	9	20	9	64	6	87	17	1200	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	1	1	3
Whooping-cough	2	2	..	..	..	..	..	1	..	2	7	7
Scarlatina	..	..	..	..	..	..	..	1	1	..	2	½
Diarrhœa	9	4	4	2	4	4	3	4	6	5	45	79
Fever	..	..	2	..	..	1	1	1	4	..	9	9½
Diseases of the Lungs	6	9	..	1	5	8	1	8	..	1	39	30
Other causes	14	14	20	4	7	*4	15	12	29	5	124	113
TOTAL NO. OF DEATHS.	31	29	26	7	16	17	20	27	40	14	227	242
TOTAL NO. OF BIRTHS.	54	31	17	8	25	14	26	28	69	16	288	284

* 1 Inquest.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson,* Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD. Population in 1861, 390,815.

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1	2	1	4	.... Small-pox	7	7	3	17
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37	16	17	70	..... Measles	35	21	31	87
12	14	20	46	.... Scarlatina	7	2	5	14
9	3	....	12	.... Diphtheria	2	1	4	7
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15	6	17	38	.... Erysipelas	15	11	15	41
..	..	....	..	.. Puerperal Fever ..	2	..	....	2
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7	2	9	18	.... Carbuncle	6	2	....	8
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HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, SEPTEMBER 28, 1861. [No. 61.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, ESQ.	Ollerenshaw, A. NEILD, ESQ.
Barometer.	INS.	INS.	INS.	NO RETURN.	INS.	INS.
Mean @ 32° F.	—	29·393	29·405		29·409	28·545
Highest } Unreduced	—	29·831	29·836		29·840	29·000
Lowest } Unreduced	—	29·058	29·140		29·142	28·274
Range	—	0·773	0·696		0·698	0·726
Temperature.						
Adopted Mean	52·0	52·1	52·1		52·8	50·5
Range for Week	22·5	30·8	32·1		26·5	24·8
Daily Range	12·3	18·6	17·9		15·2	13·5
Maximum in Shade	67·0	70·0	68·8		66·0	64·0
Minimum in Shade	44·5	39·2	36·7		39·5	39·2
Maximum in Sun	—	92·8	80·0		74·3	71·0
Maximum in Sun: Black bulb in Vacuo	—	102·5	—		—	—
Minimum on Grass	—	32·0	18·2		35·0	31·0
Temperature in Ground at surface	—	50·06	50·14		—	—
Temperature 6 inches below	—	51·09	52·25		—	51·54 (a)
Temperature 12 inches below	—	52·89	54·74		—	52·01 (b)
Temperature of Evaporation	49·6	49·7	49·2		50·2	48·0
Temperature of Dew Point	47·2	47·3	46·2		47·6	45·4
Temperature of Air—Dew Point	4·8	4·8	5·9		5·2	5·1
Hygrometrical condition of the Atmosphere.						
	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	3·68	3·70	3·55		3·70	3·45
Required to Saturate do	0·72	0·72	0·99		0·78	0·70
Weight of a cubic foot of Air	532·2	531·5	531·9		531·0	517·7
Degree of Humidity (Saturation—1,000)	0·836	0·837	0·807		0·826	0·830
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	4·49	4·52	4·33		4·56	4·20
Elastic force of Vapour	0·325	0·327	0·313		0·330	0·304
Clouds (Covered—10 Clear—0)	—	4·5	6·6		3·5	6·2
Prevailing Winds	—	SW., S.	SW.		S.	NW., SW.
Rain	—	0·742	0·460		0·527	0·730
Days on which it fell	—	5	4		6	3
Ozonometer.						
Moffat (0—10)	—	1·71	—		4·64	4·65
Schonbein (0—10)	—	0·71	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·063	0·062	0·076		0·070	0·063
Weekly Evaporation	0·441	0·434	0·532		0·490	0·441

(a) 3 feet below the surface. (b) 4 feet below the surface.

There were 7 barometric oscillations during the week, the total amount being 1·544 inches. There were 5 temperature oscillations, the amount being 17·8°.

The mean temperature of the week was 1·2° below the average of the last twelve years, and 4·1° above the average of the corresponding week last year.

The urban and suburban temperature during the week has been nearly uniform.

The degree of humidity was the highest at Old Trafford and the lowest at Sale.

Ozone was found on two days only at Old Trafford, and every day at Thelwall and Ollerenshaw.

Old Trafford, Manchester,
October 2nd, 1861.

G. V. VERNON, F.R.A.S.

MANCHESTER AND SAL

New Cases of Disease coming under Treatment in Pauper,

During the Week ending Saturday

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1861	" " 185,050														
	Poor Law Districts.						Public Institutions.								
								Royal Infirmary.					Children		
DISEASES.	Ancoats. 1	St. George's. 2	Market Street. 3	St. Jude's. 4	St. Michael's. 5	Total of Districts.	Workhouse. 6	In-patients. 7	Out-patients. 8	District I. 9	District II. 10	District III. 11	St. Mary's Hospital. 12	Clinical Hospital. 13	1
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Measles	..	3	..	..	..	3	..	..	..	..	..	3	3	..	.
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	2	..	..	2	4	..	..	..	..	..	..	4	5	.
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	..	..	..	..	1	1	3	..	3	3	1	2	15	5	.
Dysentery	..	..	1	..	..	1	1	..	1	..	..	..	..	..	.
Continued Fever	..	..	2	1	3	6	6	9	1	..	3	2	5	2	.
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Rheumatism	..	..	1	..	..	1	4	1	10	1	1	4	1	..	.
Neuralgic Affections	..	..	..	..	..	..	..	..	5	..	..	..	..	5	.
Constitutional Syphilis	..	1	..	..	..	1	2	..	8	2	..	..	2	..	
Phthisis	..	..	..	..	3	3	3	..	6	1	2	2	1	..	.
Insanity	..	..	..	..	..	..	2	..	..	..	..	..	..	..	.
Bronchitis, Influenza & Catarrh	1	3	2	4	2	12	14	2	81	8	6	4	11	2	
Pleurisy and Pneumonia	..	1	..	..	..	1	1	..	..	..	3	1	..	..	.
Skin Diseases	..	..	..	..	..	..	11	..	7	..	..	..	1	1	.
Dyspepsia	..	..	..	1	1	2	..	..	16	2	1	..	1	..	
Accidents and diseases not classified	6	5	2	7	4	24	36	27	232	..	10	7	53	5	
TOTAL	7	15	8	13	16	59	83	39	370	17	27	25	97	25	

NITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

September, 1861.

ORD.		HULME.			CHORL-TON.		ARD-WICK				
329		.... 477.....			.. 646...		508.	....	....	.....	Area in Statute Acres.
967.		.. 68,209. ..			.. 44,850 ..		21739	....	....	.....	Population in 1861.
PUBLIC TITUTIONS.		POOR LAW DISTRICTS.									
Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anccats Dispensary.	Chorlton Union Work-house.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26		
..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	1	..	9	..	..	6	25	Measles
3	..	..	..	..	..	..	..	..	..	3	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	Diphtheria
2	..	..	..	1	1	..	..	..	1	18	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	Croup
8	5	..	2	3	..	10	..	5	2	70	Diarrhœa
..	..	..	..	..	1	..	..	..	..	4	Dysentery
5	..	1	2	..	1	11	..	..	4	58	Continued Fever
..	..	..	..	1	..	1	..	..	1	3	Erysipelas
7	2	..	..	..	..	2	..	2	..	37	Rheumatism
4	..	..	..	..	..	..	..	..	..	14	Neuralgic Affections
..	1	..	..	..	..	1	..	..	1	21	Constitutional Syphilis
10	..	..	..	2	..	3	..	..	..	33	Phthisis
..	..	..	..	..	..	..	..	..	2	6	Insanity
16	..	..	3	7	1	8	1	9	..	192	Bronchitis, Influenza, and Catarrah.
5	..	..	..	..	..	2	..	1	..	14	Pleurisy & Pneumonia.
15	..	..	..	..	..	2	..	..	4	41	Skin Disease.
9	..	..	2	3	..	2	..	3	..	45	Dyspepsia
39	5	1	4	4	3	23	3	62	..	548	Accidents and diseases not classified
123	13	2	13	22	7	74	4	82	21	1132	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) ,, M. ROWLAND DAY,
(8) Dr. JOHN MEDD,
(9) Mr. J. S. DAVIES,
(10) ,, W. J. MALLETT,
(11)
(12) ,, H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) Mr. J. TEALE,
(16) ,, T. F. BROWNBILL
(17) ,, J. O. BRADBURY,
(18) ,, W. B. STOTT,
(19) ,, T. G. RICHMOND,
(20) Dr. ALEX. WILSON,
(21) Mr. H. M. WILLIAMSON.
(22) ,, W. B. MIDWOOD,
(23) ,, JOHN RAYNER,
(24) ,, J. M. KIRKMAN.
(25) ,, A. F. PENNINGTON
(26) ,, J. V. L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	1	1	..	2	2
Whooping-cough	2	1	..	..	3	1	..	2	2	..	11	7½
Scarlatina	..	..	..	..	..	..	..	..	1	..	1	1½
Diarrhœa	8	4	4	4	4	5	4	2	3	1	39	68
Fever	2	..	3	..	1	3	1	..	4	2	16	11
Diseases of the Lungs	6	7	..	4	7	5	5	3	7	..	44	31½
Other causes	*21	11	36	†17	9	5	9	5	14	11	138	118
TOTAL NO. OF DEATHS.	39	23	43	25	24	19	19	13	32	14	251	239½
TOTAL NO. OF BIRTHS.	41	32	11	30	31	31	26	25	47	25	299	285

* 10 Inquests. † 12 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

5 Weeks ending 29th June.	4 Weeks ending 27th July.	5 weeks ending 31st August.	TOTAL.	DISEASES.	5 Weeks ending 29th June.	4 Weeks ending 27th July.	5 Weeks ending 31st August.	TOTAL.
1	2	1	4	.... Small-pox	7	7	3	17
21	6	9	36	.... Chicken-pox	5	..	1	6
37	16	17	70	..... Measles	35	21	31	87
12	14	20	46	.... Scarlatina	7	2	5	14
9	3	....	12	.... Diphtheria	2	1	4	7
115	47	60	222	.. Whooping-cough ..	101	52	66	219
..	..	1	1	..... Croup	2	2	3	7
416	966	2386	3768	.....Diarrhœa.....	155	338	629	1122
3	7	9	19	.... Dysentery	18	40	79	137
..	1	1	2	..... Cholera	3	1	6	10
15	6	17	38	.... Erysipelas	15	11	15	41
..	..	....	..	.. Puerperal Fever ..	2	..	....	2
11	8	17	36	..... Insanity	43	28	32	103
618	344	318	1280	Bronchitis and Catarrh	729	446	598	1773
14	15	13	42	..... Pleurisy	12	11	17	84
12	15	16	43	... Pneumonia	20	24		
7	2	9	18	.... Carbuncle	6	2	....	8
4329	3385	4204	11918	Accidents, and all other Diseases	3907	2850	3651	10408
5620	4837	7098	17555	..... TOTAL	5069	3836	5140	14045

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, OCTOBER 5, 1861. [No. 62.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw, A. NEILD, Esq.
Barometer.	INS.	INS.	INS.		INS.	INS.
Mean @ 32° F.	—	29·868	29·854		29·862	28·971
Highest (Unreduced)	—	30·150	30·180		30·164	29·272
Lowest (Unreduced)	—	29·674	29·714		29·698	28·858
Range	—	0·476	0·466		0·466	0·414
Temperature.						
Adopted Mean	55·8	55·6	54·5		55·3	54·2
Range for Week	14·0	20·0	29·5		20·0	17·4
Daily Range	7·6	13·1	16·5		12·2	11·7
Maximum in Shade	65·0	67·0	66·8		66·0	64·2
Minimum in Shade	51·0	47·0	37·3		46·0	46·8
Maximum in Sun	—	87·0	78·0		73·6	79·0
Maximum in Sun: Black bulb in Vacuo	—	97·4	—		—	—
Minimum on Grass	—	42·0	18·0		42·4	41·5
Temperature in Ground at surface	—	52·88	52·37		—	—
Temperature 6 inches below	—	53·31	54·34		—	52·13 (a)
Temperature 12 inches below	—	54·17	55·93		—	52·08 (b)
Temperature of Evaporation	53·3	53·4	52·2		53·9	52·3
Temperature of Dew Point	51·0	51·7	50·0		52·5	50·4
Temperature of Air—Dew Point	4·8	3·9	4·5		2·8	3·8
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·21	4·26	4·06		4·44	3·97
Required to Saturate do	0·77	0·70	0·74		0·49	0·59
Weight of a cubic foot of Air	536·3	536·0	537·0		536·2	521·4
Degree of Humidity (Saturation—1,000)	0·848	0·864	0·844		0·909	0·869
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	5·17	5·31	4·99		5·48	5·06
Elastic force of Vapour	0·374	0·384	0·361		0·396	0·366
Clouds (Covered—10 Clear—0)	—	7·8	7·4		8·0	6·8
Prevailing Winds	—	S., SE.	SW.		S.	Variable.
Rain	—	0·532	0·640		0·665	0·350
Days on which it fell	—	4	4		6	4
Ozonometer.						
Moffat (0—10)	—	0·43	—		2·14	3·01
Schonbein (0—10)	—	0·00	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·072	0·059	0·064		0·041	0·055
Weekly Evaporation	0·504	0·413	0·448		0·287	0·385

NO RETURN.

(*a*) 3 feet below the surface. (*b*) 4 feet below the surface.

There were 5 barometric oscillations during the week, the amount being 1·380 inches. There were 5 temperature oscillations, the amount being 16·4°.

The mean temperature of the week was 2·6° above the average of the last twelve years, and 4·7° above the corresponding week last year.

The mean temperature was the highest at the Royal Infirmary and the lowest at Ollerenshaw.

The degree of humidity was the highest at Thelwall and the least at Sale.

The fall of rain, during September, at the various stations, has been as follows:

	Fall in Inches.	Days on which it Fell.
Old Trafford	4·050	19
Sale	4·070	21
Thelwall	2·764	24
Ollerenshaw	5·140	14

The fall of rain was the greatest at the most elevated station, and least at the lowest station. The least fall was at Thelwall, and fell there upon the largest number of days.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
October 8th, 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Paup

During the Week ending Satu

	MANCHESTER.													
Area in Statute Acres	..... Manchester Township 1,645													
Population in 1861	..... " " 185,050													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Childre	
DISEASES.	Ancoats.	St. George's.	Market Street.	St. Jude's.	St. Michael's.	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical H
	1	2	3	4	5		6	7	8	9	10	11	12	13
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Measles	..	6	..	..	..	6	1	..	1	..	..	2	1	1
Scarlatina	..	3	..	..	..	3	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Whooping-cough	..	1	..	2	6	9	..	..	..	..	..	..	7	4
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa.....	3	3	1	1	2	10	2	..	5	..	..	1	13	4
Dysentery	..	..	2	..	..	2	1	1	1	..	..	..	..	..
Continued Fever.....	..	3	3	2	3	11	11	7	1	3	4	2	2	4
Erysipelas	..	..	1	..	..	1	..	..	..	1	..	..	..	..
Rheumatism	1	..	..	2	..	3	..	2	17	..	3	3	..	..
Neuralgic Affections	..	1	..	..	..	1	..	..	3	1	..	..	..	..
Constitutional Syphilis	..	..	..	..	1	1	5	..	11	..	..	..	..	..
Phthisis	..	2	1	..	1	4	..	..	20	..	2	2	2	
Insanity	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	3	..	9	2	3	17	13	..	48	3	3	4	16	..
Pleurisy and Pneumonia....	..	..	..	..	..	..	1	..	1	..	..	1	1	..
Skin Diseases.....	..	..	..	..	..	..	22	..	10	..	..	..	6	2
Dyspepsia	1	..	1	..	1	3	1	..	32	1	4	3	..	2
Accidents and diseases not classified.....	9	11	5	4	13	42	36	32	237	3	8	6	41	6
TOTAL	17	30	23	13	30	113	94	42	388	12	24	24	89	26

ANITARY ASSOCIATION.

d Public Institutions of Manchester and adjoining Districts,

of October, 1861.

LFORD.			HULME.			CHORL-TON.		ARD-WICK				
1,329	....		.... 477.	....		.. 646.	..	508.	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209.	..		.. 44,850	..	21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work-house.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26		
..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	1	..	..	..	..	..	..	..	..	..	2	Chicken-pox
..	2	..	..	1	3	..	3	..	..	5	26	Measles
1	6	..	..	..	..	..	..	..	..	..	10	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	..	..	..	1	..	5	..	..	..	26	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
1	5	1	..	..	2	..	6	..	..	..	50	Diarrhœa
1	..	..	..	..	..	..	..	..	..	..	6	Dysentery
1	4	..	2	1	1	..	5	..	1	3	63	Continued Fever
..	2	..	..	1	1	..	..	..	..	..	6	Erysipelas
..	5	2	..	..	..	..	4	..	6	2	47	Rheumatism
..	3	..	..	..	..	..	..	..	..	..	8	Neuralgic Affections
..	..	..	..	..	..	..	2	..	2	..	21	Constitutional Syphilis
1	7	..	..	1	1	..	2	1	2	2	48	Phthisis
4	..	..	..	1	..	1	..	1	..	4	12	Insanity
5	17	3	1	..	6	1	7	2	7	..	154	Bronchitis, Influenza, and Catarrah.
..	2	..	..	1	..	..	2	..	..	..	9	Pleurisy & Pneumonia.
2	7	..	1	..	..	1	1	..	..	11	65	Skin Disease.
..	9	..	..	3	2	..	7	..	4	..	76	Dyspepsia
7	38	6	3	3	8	5	36	1	58	4	588	Accidents and diseases not classified
23	108	12	7	12	25	8	80	5	80	31	1218	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) Dr. J. O. FLETCHER,
(4) Mr. C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) ,, M. ROWLAND DAY,

(8) } Mr. C. H. BRADDON,
(9) }
(10) } ,, W. H. HUGHES,
(11) } ,, W. J. MALLETT,
(12) ,, H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,

(15) Mr. J. TEALE,
(16) ,, T. F. BROWNBILL
(17) ,, J. O. BRADBURY,
(18) ,, W. B. STOTT,
(19) ,, T. G. RICHMOND,
(20) Dr. ALEX. WILSON,

(21) Mr. H. M. WILLIAMSON.
(22) ,, W. B. MIDWOOD,
(23) ,, JOHN RAYNER,
(24) ,, J. M. KIRKMAN.
(25) ,, A. F. PENNINGTON
(26) ,, J. V. L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	1	1	..	1	..	2	1	..	..	7	2
Whooping-cough	3	1	..	..	..	..	3	3	2	1	13	7
Scarlatina	..	1	..	..	..	1	..	..	1	..	3	1
Diarrhœa	6	5	4	1	1	7	1	2	3	2	32	61
Fever	2	1	3	..	4	2	1	1	4	..	18	11
Diseases of the Lungs	8	6	..	4	3	4	1	3	4	1	34	34
Other causes	9	11	18	4	4	8	9	7	14	2	86	127
TOTAL NO. OF DEATHS.	29	26	26	9	13	22	17	17	28	6	193	243
TOTAL NO. OF BIRTHS.	44	50	28	17	16	30	27	19	49	10	290	288

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.
Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 Weeks ending 27th July.	5 weeks ending 31st August.	4 Weeks ending 28th September.	TOTAL.	DISEASES.	4 Weeks ending 27th July.	5 Weeks ending 31st August.	4 Weeks ending 28th September.	TOTAL.
2	1	..	3	.... Small-pox	7	3	4	14
6	9	17	32	.... Chicken-pox	..	1	..	1
16	17	19	52	..... Measles	21	31	55	107
14	20	28	62	.... Scarlatina	2	5	10	17
3	....	2	5	.... Diphtheria	1	4	..	5
47	60	47	154	.. Whooping-cough ..	52	66	65	183
..	1	6	7	..... Croup	2	3	..	5
966	2386	1001	4353	.....Diarrhœa.. ...	338	629	414	1381
7	9	15	31	.... Dysentery	40	79	32	151
1	1	4	6	..... Cholera	1	6	..	7
6	17	20	43	.... Erysipelas	11	15	23	49
..	....	..	..	.. Puerperal Fever ..	..	....	..	..
8	17	15	40	..... Insanity	28	32	34	94
344	318	437	1099	Bronchitis and Catarrh	446	598	616	1660
15	13	7	35	..... Pleurisy	11	17	35	87
15	16	22	13	... Pneumonia	24			
2	9	7	58	.... Carbuncle	2	....	....	2
3385	4204	3471	11060	Accidents, and all other Diseases	2850	3651	3052	9553
4837	7098	5118	17053	..... TOTAL	3836	5140	4340	19316

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. II.] WEEK ENDING SATURDAY, OCTOBER 12, 1861. [No. 63.

Meteorological Observations, taken at Manchester and the Neighbourhood.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.		INS.	INS.
Mean @ 32° F.	—	29·695	29·699		29·710	—
Highest (Unreduced)	—	30·170	30·160		30·196	—
Lowest (Unreduced)	—	29·180	29·270		29·218	—
Range	—	0·990	0·890		0·978	—
Temperature.						
Adopted Mean	54·8	54·5	54·8		54·6	53·7
Range for Week	19·0	37·2	39·6		35·8	28·8
Daily Range	16·3	17·8	20·6		16·7	15·4
Maximum in Shade	62·0	70·2	69·8		67·8	65·9
Minimum in Shade	43·0	33·0	30·2		32·0	37·1
Maximum in Sun	—	82·0	83·2		75·4	81·0
Maximum in Sun: Black bulb in Vacuo	—	92·2	—		—	—
Minimum on Grass	—	30·0	13·0		31·0	29·2
Temperature in Ground at surface	—	52·27	53·46		—	—
Temperature 6 inches below	—	52·91	54·01		—	52·88 (a)
Temperature 12 inches below	—	54·18	55·91		—	52·67 (b)
Temperature of Evaporation	52·3	52·5	52·1		53·0	50·9
Temperature of Dew Point	49·9	50·5	49·5		51·4	48·2
Temperature of Air—Dew Point	4·9	4·0	5·3		3·2	5·5
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	4·03	4·15	4·00		4·28	3·80
Required to Saturate do	0·83	0·65	0·89		0·54	0·84
Weight of a cubic foot of Air	534·3	534·0	533·9		534·2	521·5
Degree of Humidity (Saturation—1,000)	0·833	0·865	0·819		0·888	0·812
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	4·98	5·05	4·91		5·24	4·67
Elastic force of Vapour	0·360	0·367	0·355		0·379	0·338
Clouds (Covered—10 Clear—0)	—	9·1	6·1		6·4	7·1
Prevailing Winds	—	S., SE.	SW.		S., SE.	SW., E., S
Rain	—	0·382	0·370		0·521	0·550
Days on which it fell	—	5	3		4	3
Ozonometer.						
Moffat (0—10)	—	1·86	—		3·50	4·88
Schonbein (0—10)	—	1·43	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·070	0·058	0·095		0·048	0·075
Weekly Evaporation	0·490	0·406	0·665		0·336	0·525

NO RETURN.

(a) 3 feet below the surface. (b) 4 feet below the surface.

There were 5 barometric oscillations during the week, the amount being 2·289 inches, this amount is larger than any week since March last. There were 5 temperature oscillations during the week, the amount being 72·4°; this is the largest weekly amount of disturbance this year.

The mean temperature of the week was 4·9° above the average of the last twelve years, and 10·0° above the same week last year; it was also warmer than any corresponding week during the last twelve years.

The mean temperature was nearly uniform at all the stations, the much greater elevation of Ollerenshaw giving, of course, a somewhat lower temperature.

The degree of humidity was the highest at Thelwall and the least at Ollerenshaw.

Ozone occurred upon 3 days at Old Trafford, upon 6 at Thelwall, and 7 at Ollerenshaw.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
October 15th, 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Paupe

During the Week ending Saturda

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1861	" " 185,050														
DISEASES.	Poor Law Districts.							Public Institutions.							
									Royal Infirmary.					Childre	
	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	1	..	1	..	2	..	..	..	..	..	..	2	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	11	11	..	..	..	..	..	..	7	2
Croup	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..
Diarrhœa	3	1	1	..	2	..	7	1	..	..	..	..	..	10	3
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	3	1	2	5	1	7	19	11	7	..	4	2	1	2	2
Erysipelas	..	..	1	..	..	..	1	..	..	..	1	..	..	..	..
Rheumatism	1	..	..	2	..	..	3	3	2	15	..	2	3	..	1
Neuralgic Affections	..	..	..	..	..	..	..	3	..	1	..	..	1	..	1
Constitutional Syphilis	..	..	..	..	..	..	..	3	..	8	..	..	..	3	2
Phthisis	..	..	..	1	..	3	4	4	2	30	..	2	..	..	2
Insanity	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	1	..	2	3	3	6	15	10	..	62	6	4	8	20	1
Pleurisy and Pneumonia	..	..	1	..	..	..	1	1	1	3	1	2	2	1	2
Skin Diseases	..	..	..	..	..	..	..	10	1	5	..	1	..	9	..
Dyspepsia	..	..	..	..	1	2	3	1	..	29	1	2	..	..	4
Accidents and diseases not classified	1	2	11	5	2	6	27	39	28	273	10	8	12	61	3
TOTAL	9	4	19	17	10	35	94	87	41	427	23	23	28	116	23

ANITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

October, 1861.

LFORD.			HULME.			CHORL-TON.	ARD-WICK				
1,329	....		.... 477.	....		.. 646. ..	508.	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209.	..		.. 44,850 ..	21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.								
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work-house.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	3	..	1	1	2	..	4	..	..	10	25	Measles
..	5	..	..	..	..	..	..	..	..	..	6	Scarlatina
..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	4	..	..	..	..	..	3	..	..	2	29	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	2	Croup
1	3	2	..	1	4	..	4	..	..	1	40	Diarrhœa
..	..	..	1	..	..	..	1	..	..	..	2	Dysentery
..	3	..	3	2	6	..	3	1	6	1	74	Continued Fever
..	1	..	..	1	..	..	..	..	..	1	5	Erysipelas
..	7	4	1	1	..	..	7	..	4	1	54	Rheumatism
..	2	..	..	1	..	..	..	..	..	..	9	Neuralgic Affections
..	1	..	..	..	..	..	..	..	2	1	20	Constitutional Syphilis
..	3	..	1	..	..	..	2	..	2	..	52	Phthisis
1	..	..	..	..	..	..	..	..	..	1	3	Insanity
3	26	7	1	2	6	3	11	..	10	..	198	Bronchitis, Influenza, and Catarrah.
..	3	1	..	..	..	1	4	..	..	1	24	Pleurisy & Pneumonia.
5	2	..	..	..	..	..	1	..	..	2	36	Skin Disease.
..	10	..	..	4	..	..	4	..	4	..	66	Dyspepsia
4	75	5	1	2	7	1	32	1	52	..	646	Accidents and diseases not classified
14	148	19	9	15	25	5	76	2	80	21	1292	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN.
(2) " T. W. DYSON,
(3) " JOHN ARMSTRONG,
(4) Dr. J. O. FLETCHER,
(5) Mr. C. S. BOMPAS,
(6) " EVAN THOMAS,
(7) " J. BROADBENT,
(8) Mr. M. ROWLAND DAY,
(9) } Mr. C. H. BRADDON,
(10) } " W. H. HUGHES,
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(12) }
(13) " H. RUNCORN,
(14) Dr. WHITEHEAD,
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(18) " J. O. BRADBURY,
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Aneoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	2	..	..	..	1	..	..	..	1	..	4	3
Whooping-cough	1	..	..	..	..	..	..	2	1	..	4	9
Scarlatina	..	..	..	..	1	..	..	..	..	..	1	1½
Diarrhœa	8	3	3	..	1	4	2	2	2	1	26	50½
Fever	1	..	3	1	1	3	†1	..	‡4	†2	16	13
Diseases of the Lungs	4	1	..	3	1	6	2	5	6	4	32	36
Other causes	15	15	17	10	9	*8	11	6	23	5	119	122
TOTAL NO. OF DEATHS.	31	19	23	14	14	21	16	15	37	12	202	235
TOTAL NO. OF BIRTHS.	49	32	18	27	12	22	15	32	54	15	276	288

* 1 Inquest. † Typhus Fever. ‡ 3 Typhus Fever.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 Weeks ending 27th July.	5 weeks ending 31st August.	4 Weeks ending 28th September.	TOTAL.	DISEASES.	4 Weeks ending 27th July.	5 Weeks ending 31st August.	4 Weeks ending 28th September.	TOTAL.
2	1	..	3	Small-pox	7	3	4	14
6	9	17	32	Chicken-pox	..	1	..	1
16	17	19	52	Measles	21	31	55	107
14	20	28	62	Scarlatina	2	5	10	17
3	....	2	5	Diphtheria	1	4	..	5
47	60	47	154	Whooping-cough	52	66	65	183
..	1	6	7	Croup	2	3	..	5
966	2386	1001	4353	Diarrhœa	338	629	414	1381
7	9	15	31	Dysentery	40	79	32	151
1	1	4	6	Cholera	1	6	..	7
6	17	20	43	Erysipelas	11	15	23	49
..	....	..	..	Puerperal Fever	..	....	..	..
8	17	15	40	Insanity	28	32	34	94
344	318	437	1099	Bronchitis and Catarrh	446	598	616	1660
15	13	7	35	Pleurisy	11	17	35	87
15	16	22	13	Pneumonia	24			
2	9	7	58	Carbuncle	2	....	....	2
3385	4204	3471	11060	Accidents, and all other Diseases	2850	3651	3052	9553
4837	7098	5118	17053	TOTAL	3836	5140	4340	19316

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HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. II.] WEEK ENDING SATURDAY, OCTOBER 19, 1861. [No. 64.

Meteorological Observations, taken at Manchester and the Neighbourhood.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.		INS.	INS.
Mean @ 32° F.	—	29·993	29·982		30·002	—
Highest (Unreduced)	—	30·318	30·316		30·320	—
Lowest (Unreduced)	—	29·792	29·766		29·772	—
Range	—	0·526	0·550		0·548	—
Temperature.						
Adopted Mean	53·2	52·1	51·3		50·3	50·6
Range for Week	24·0	34·8	40·2		32·8	31·2
Daily Range	10·8	17·2	19·9		15·9	13·9
Maximum in Shade	66·0	68·8	71·2		64·8	69·0
Minimum in Shade	42·0	34·0	31·0		32·0	37·8
Maximum in Sun	—	71·8	87·0		71·0	74·0
Maximum in Sun: Black bulb in Vacuo	—	88·7	—		—	—
Minimum on Grass	—	30·7	26·8		25·5	33·0
Temperature in Ground at surface	—	50·39	50·33		—	—
Temperature 6 inches below	—	51·20	51·73		—	52·33 (a)
Temperature 12 inches below	—	52·93	54·25		—	52·61 (b)
Temperature of Evaporation	50·0	49·7	48·9		48·8	48·1
Temperature of Dew Point	46·8	47·3	46·4		47·2	45·5
Temperature of Air—Dew Point	6·4	4·8	4·9		3·1	5·1
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	3·58	3·70	3·55		3·71	3·47
Required to Saturate do	0·96	0·72	0·71		0·42	0·69
Weight of a cubic foot of Air	541·8	542·5	543·1		544·4	530·5
Degree of Humidity (Saturation—1,000)	0·788	0·837	0·836		0·898	0·831
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	4·44	4·52	4·37		4·49	4·22
Elastic force of Vapour	0·321	0·327	0·316		0·325	0·305
Clouds (Covered—10 Clear—0)	—	8·3	5·1		6·7	6·8
Prevailing Winds	—	SW., NE.	NW., SW.		SE., S.	SE., S.
Rain	—	0·151	0·120		0·048	0·240
Days on which it fell	—	4	1		3	3
Ozonometer.						
Moffat (0—10)	—	2·28	—		3·14	3·57
Schonbein (0—10)	—	1·14	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·085	0·062	0·062		0·040	0·064
Weekly Evaporation	0·595	0·434	0·434		0·280	0·448

NO RETURN.

(*a*) 3 feet below the surface. (*b*) 4 feet below the surface.

There were 3 barometric oscillations during the week, the amount being 1·018 inches. There were 3 temperature oscillations during the week, the amount being 37·9°.

The mean temperature of the week was 3·0° above the average of the last twelve years, and 3·2° above the corresponding week last year.

The mean temperature has been the highest at the Royal Infirmary, and gradually diminished as the city was receded from.

The degree of humidity was the least at the Royal Infirmary and the highest at Thelwall

Ozone occurred upon 2 days at Old Trafford, upon 7 at Thelwall, and 6 at Ollerenshaw.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
October 22nd, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper,

During the Week ending Saturda

	MANCHESTER.														
Area in Statute Acres	..... Manchester Township 1,645														
Population in 1861	..... „ „ 185,050														
	Poor Law Districts.							Public Institutions.							
									Royal Infirmary.					Childre	
DISEASES.	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Measles	..	..	..	..	..	1	1	1	..	..	..	..	1	1	
Scarlatina	..	..	..	1	..	..	1	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	1	..	..	5	6	..	..	..	..	..	2	2	.
Croup	..	..	..	1	..	..	1	..	..	..	..	..	..	..	.
Diarrhœa.....	1	..	1	1	..	2	5	3	..	4	..	2	..	11	
Dysentery	..	..	..	..	..	..	..	1	..	1	..	..	..	..	
Continued Fever.....	*1	..	..	3	2	5	11	6	4	1	3	4	2	16	
Erysipelas	..	..	2	1	..	1	4	1	..	..	..	..	..	..	.
Rheumatism	..	1	2	..	..	..	3	4	..	15	..	1	1	..	.
Neuralgic Affections	..	..	..	..	..	..	..	..	..	2	..	..	..	..	
Constitutional Syphilis	..	..	..	..	..	..	..	3	..	6	..	..	..	..	.
Phthisis	..	..	..	..	..	..	..	5	..	25	1	1	1	..	.
Insanity	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Bronchitis, Influenza & Catarrh	1	..	4	4	..	2	11	7	..	80	5	5	5	23	
Pleurisy and Pneumonia....	..	..	..	..	..	..	..	..	..	..	..	3	1	..	.
Skin Diseases.....	..	1	3	..	..	1	5	17	..	6	..	..	..	3	
Dyspepsia	1	..	..	1	..	2	4	3	..	26	2	..	..	..	
Accidents and diseases not classified.....	6	8	5	5	3	13	40	39	30	219	8	7	11	55	
TOTAL	10	10	18	17	5	32	92	90	34	385	19	23	24	111	2

* The prevailing Fever is of a mild Typhus with Diarrhœa.

SANITARY ASSOCIATION.

ıd Public Institutions of Manchester and adjoining Districts,

of October, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
.. 1,329				.... 477.			.. 646. ..		508.	....	....	.....	Area in Statute Acres.
.. 70,967.				.. 68,209. ..			.. 44,850 ..		21739	....	....	.....	Population in 1861.
OR AW ST	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Greengate.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
6	17	18	19	20	21	22	23	24	25	26	27		
.	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
.	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
.	..	5	..	..	..	3	..	2	..	..	4	19	Measles
.	..	2	..	..	..	..	..	2	..	..	..	5	Scarlatina
.	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
.	..	2	..	..	..	1	..	2	..	2	2	19	Whooping-cough
.	..	..	..	..	..	..	..	..	..	..	..	1	Croup
2	1	2	4	..	..	..	1	1	..	3	..	44	Diarrhœa
.	..	2	..	1	..	2	..	1	..	..	..	10	Dysentery
1	3	10	..	1	1	2	1	3	..	4	3	79	Continued Fever
.	1	..	..	..	..	..	..	2	..	..	..	8	Erysipelas
1	2	6	1	1	1	..	..	5	1	6	1	49	Rheumatism
1	..	5	..	1	..	..	1	..	1	..	..	13	Neuralgic Affections
.	..	1	..	..	..	..	1	..	..	..	1	12	Constitutional Syphilis
.	..	6	..	..	..	..	1	1	..	..	..	41	Phthisis
.	1	..	..	..	..	..	..	..	..	..	1	2	Insanity
1	3	25	4	..	2	8	1	6	..	10	..	198	Bronchitis, Influenza, and Catarrah.
..	..	3	..	..	..	..	..	8	1	..	1	17	Pleurisy & Pneumonia.
1	2	8	1	..	1	..	..	..	..	..	2	48	Skin Disease.
1	1	5	2	..	..	..	..	3	..	5	..	55	Dyspepsia
9	8	63	2	5	6	5	5	29	1	56	..	610	Accidents and diseases not classified
17	22	145	14	9	11	21	11	65	4	86	15	1230	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN.
(2) " T. W. DYSON,
(3) " JOHN ARMSTRONG,
(4) Dr. J. O. FLETCHER,
(5) Mr. C. S. BOMPAS,
(6) " EVAN THOMAS,
(7) " J. BROADBENT,
(8) Mr. M. ROWLAND DAY,
(9) (10) (11) (12) Mr. C. H. BRADDON, " W. H. HUGHES, " W. J. MALLETT,
(13) " H. RUNCORN,
(14) Dr. WHITEHEAD,
(15) Mr. W. GOLLAND,
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(24) " JOHN RAYNER,
(25) " J. M. KIRKMAN.
(26) " A. F. PENNINGTON
(27) " J. V. L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	1	..	..	..	..	1	..	..	2	3½
Whooping-cough	1	..	..	1	..	..	..	2	1	..	5	8½
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	2
Diarrhœa	2	2	5	1	1	1	2	4	3	..	21	35½
Fever	1	..	5	3	1	3	†3	.	‡3	..	19	15
Diseases of the Lungs	13	8	..	5	2	6	1	1	5	3	44	37
Other causes	13	11	14	10	9	*7	3	9	18	7	101	116½
TOTAL NO. OF DEATHS.	30	21	25	20	13	17	9	17	30	10	192	218
TOTAL NO. OF BIRTHS.	51	29	23	30	9	35	24	17	53	17	288	288

* 1 Inquest. † 1 Case of Fever 10 days. † 1 Case of Fever after confinement. † 1 Case of Continued Fever 14 days. ‡ 1 Case of Typhus Fever.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson,* Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD. Population in 1861, 390,815.

4 Weeks ending 27th July.	5 weeks ending 31st August.	4 Weeks ending 28th September.	TOTAL.	DISEASES.	4 Weeks ending 27th July.	5 Weeks ending 31st August.	4 Weeks ending 28th September.	TOTAL.
2	1	..	3	.... Small-pox	7	3	4	14
6	9	17	32	.... Chicken-pox	..	1	..	1
16	17	19	52	..... Measles	21	31	55	107
14	20	28	62	.... Scarlatina	2	5	10	17
3	....	2	5	.... Diphtheria	1	4	..	5
47	60	47	154	.. Whooping-cough ..	52	66	65	183
..	1	6	7	..... Croup	2	3	..	5
966	2386	1001	4353	.....Diarrhœa.. ...	338	629	414	1381
7	9	15	31	.... Dysentery	40	79	32	151
1	1	4	6	..... Cholera	1	6	..	7
6	17	20	43	.... Erysipelas	11	15	23	49
..	....	..	..	.. Puerperal Fever ..	..	....	..	..
8	17	15	40	..... Insanity	28	32	34	94
344	318	437	1099	Bronchitis and Catarrh	446	598	616	1660
15	13	7	35	..... Pleurisy	11	17	35	87
15	16	22	13	... Pneumonia	24			
2	9	7	58	.... Carbuncle	2	....	....	2
3385	4204	3471	11060	Accidents, and all other Diseases	2850	3651	3052	9553
4837	7098	5118	17053	..... TOTAL	3836	5140	4340	19316

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. II.] WEEK ENDING SATURDAY, OCTOBER 26, 1861. [No. 65.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.		INS.	INS.
Mean @ 32° F.	—	29·836	29·845		29·849	—
Highest (Unreduced)	—	30·200	30·184		30·224	—
Lowest (Unreduced)	—	29·622	29·662		29·628	—
Range	—	0·578	0·522		0·596	—
Temperature.						
Adopted Mean	52·8	53·9	52·8		51·6	50·9
Range for Week	16·0	21·0	24·0		24·5	16·8
Daily Range	10·4	15·5	14·6		14·2	10·0
Maximum in Shade	63·0	66·0	65·2		63·5	59·8
Minimum in Shade	47·0	45·0	41·2		39·0	43·0
Maximum in Sun	—	67·8	73·0		72·0	69·0
Maximum in Sun: Black bulb in Vacuo	—	85·0	—		—	—
Minimum on Grass	—	38·0	32·5		32·5	39·1
Temperature in Ground at surface	—	50·94	52·35		—	—
Temperature 6 inches below	—	51·09	51·95		—	—
Temperature 12 inches below	—	51·93	53·24		—	—
Temperature of Evaporation	50·2	51·5	50·2		50·1	49·0
Temperature of Dew Point	47·6	49·2	47·6		48·6	47·0
Temperature of Air—Dew Point	5·2	4·7	5·2		3·0	3·9
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	3·70	3·96	3·70		3·87	3·62
Required to Saturate do	0·78	0·72	0·78		0·45	0·57
Weight of a cubic foot of Air	540·2	537·1	539·6		540·7	529·9
Degree of Humidity (Saturation—1,000)	0·806	0·841	0·806		0·895	0·867
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	4·56	4·85	4·56		4·74	4·47
Elastic force of Vapour	0·330	0·351	0·330		0·343	0·323
Clouds (Covered—10 Clear—0)	—	8·8	4·8		8·1	9·1
Prevailing Winds	—	SE., NE.	SE.		S. SE.,	SE.
Rain	—	0·354	0·320		0·368	0·420
Days on which it fell	—	3	3		4	4
Ozonometer.						
Moffat (0—10)	—	1·28	—		2·57	5·09
Schonbein (0—10)	—	0·86	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·070	0·065	0·070		0·039	0·050
Weekly Evaporation	0·490	0·455	0·490		0·273	0·350

NO RETURN.

There were 5 barometric oscillations during the week, the amount being 0·961 inches. There were 4 temperature oscillations, the amount being 32·7°.

The mean temperature of the week was 6·9° above the average of the last twelve years, and 4·5° above the corresponding week last year.

The mean temperature was the highest at Old Trafford and the least at Ollerenshaw.

The degree of humidity was the highest at Thelwall, and the least at the Royal Infirmary and Sale.

Ozone occurred upon 2 days at Old Trafford, 5 at Thelwall, and 6 at Ollerenshaw.

October, so far, has been unusually dry, and this, no doubt, is owing to the relatively high temperature we have had for the season.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
October 30th, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper,

During the Week ending Saturday,

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1861	" " 185,050														
	Poor Law Districts.							Public Institutions.							
									Royal Infirmary.					Children	
DISEASES.	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	2	..	2	..	4	..	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	2	..	..	6	8	..	..	..	..	..	1	11	4
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	2	1	..	1	2	6	2	..	6	1	..	..	9	4
Dysentery	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Continued Fever	4	..	3	1	1	3	12	3	3	*1	..	†3	1	9	3
Erysipelas	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..
Rheumatism	1	..	3	..	1	1	6	4	1	15	2	2	1	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	5	..	..	1	1	..
Constitutional Syphilis	..	..	..	..	..	..	..	3	..	3	..	1	..	..	1
Phthisis	..	..	1	1	..	1	3	1	..	32	..	2	..	2	1
Insanity	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	1	..	4	4	3	3	15	11	..	42	7	5	4	23	4
Pleurisy and Pneumonia	..	..	1	..	..	..	1	..	..	..	..	1	3	..	3
Skin Diseases	..	..	1	..	..	..	1	13	..	17	..	..	..	6	3
Dyspepsia	..	..	1	..	..	4	5	2	..	40	1	..	..	1	2
Accidents and diseases not classified	5	15	3	4	2	6	35	26	23	252	5	10	10	41	3
TOTAL	11	17	22	10	10	26	96	66	27	416	16	24	21	103	28

* Typhus. † Mild Typhus.

ANITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

October, 1861.

LFORD.			HULME.			CHORL-TON.		ARD-WICK				
1,329	....		.... 477.			.. 646. ..		508.	....	....	.....	Area in Statute Acres.
0,967.	....		.. 68,209. ..			.. 44,850 ..		21739	....	....	.....	Population in 1861.
PUBLIC NSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Anccats Dispensary.	Chorlton Union Work-house.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27		
.	..	..	..	..	..	..	..	..	..	..	..	Small-pox
.	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
.	7	..	..	..	..	..	..	..	..	4	15	Measles
.	3	..	1	..	..	..	.	..	..	..	4	Scarlatina
.	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
2	1	..	..	1	..	..	..	..	..	1	29	Whooping-cough
.	..	..	..	..	..	..	..	..	..	..	..	Croup
.	3	4	1	..	..	..	2	..	..	1	41	Diarrhœa
.	1	..	..	..	..	..	..	..	..	..	3	Dysentery
.	8	..	1	..	3	..	1	..	4	4	60	Continued Fever
.	..	..	..	..	..	..	2	..	..	..	4	Erysipelas
.	5	4	1	..	..	1	2	..	5	1	51	Rheumatism
.	4	..	..	..	..	..	..	..	1	1	13	Neuralgic Affections
.	1	..	..	..	..	1	..	..	3	..	15	Constitutional Syphilis
.	6	..	..	..	1	..	..	..	6	1	55	Phthisis
.	..	..	..	..	..	..	..	..	..	1	3	Insanity
3	33	3	1	4	10	7	14	1	9	..	201	Bronchitis, Influenza, and Catarrah.
.	1	..	..	..	..	..	2	..	1	..	12	Pleurisy & Pneumonia.
4	5	..	..	..	..	..	2	..	1	2	54	Skin Disease.
.	6	1	1	..	3	1	2	..	12	..	80	Dyspepsia
5	83	6	2	1	5	3	16	2	41	..	574	Accidents and diseases not classified
1	167	18	8	6	22	13	43	3	83	16	1214	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN.
(2) ,, T. W. DYSON,
(3) ,, JOHN ARMSTRONG,
(4) Dr. J. O. FLETCHER,
(5) Mr. C. S. BOMPAS,
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	*1	..	..	..	..	..	..	..	..	..	1	..
Measles	1	1	..	..	..	..	1	..	..	..	3	4
Whooping-cough	2	..	1	4	1	1	..	..	..	..	9	8
Scarlatina	..	..	2	..	..	..	3	..	..	..	5	1
Diarrhœa	2	2	3	2	1	..	1	1	1	1	14	30
Fever	3	2	3	..	..	2	..	†3	3	..	16	17
Diseases of the Lungs	5	9	1	7	6	8	..	2	4	5	47	38
Other causes	10	15	7	8	6	9	6	10	17	5	93	111
TOTAL NO. OF DEATHS.	24	29	17	21	14	20	11	16	25	11	188	209
TOTAL NO. OF BIRTHS.	34	43	22	22	24	26	15	23	49	15	273	288

* A female aged 42; her brother died two or three weeks since from Small-pox, both unvaccinated.
† 1 Case of Typhus Fever.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.
Population in 1861, 161,609.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 Weeks ending 27th July.	5 weeks ending 31st August.	4 Weeks ending 28th September.	TOTAL.	DISEASES.	4 Weeks ending 27th July.	5 Weeks ending 31st August.	4 Weeks ending 28th September.	TOTAL.
2	1	..	3	.... Small-pox	7	3	4	14
6	9	17	32	.... Chicken-pox	..	1	..	1
16	17	19	52	..... Measles	21	31	55	107
14	20	28	62	.... Scarlatina	2	5	10	17
3	....	2	5	.... Diphtheria	1	4	..	5
47	60	47	154	.. Whooping-cough ..	52	66	65	183
..	1	6	7	..... Croup	2	3	..	5
966	2386	1001	4353	.....Diarrhœa.. ...	338	629	414	1381
7	9	15	31	.... Dysentery	40	79	32	151
1	1	4	6	..... Cholera	1	6	..	7
6	17	20	43	.... Erysipelas	11	15	23	49
..	....	..	..	.. Puerperal Fever ..	..	....	..	..
8	17	15	40	..... Insanity	28	32	34	94
344	318	437	1099	Bronchitis and Catarrh	446	598	616	1660
15	13	7	35	..... Pleurisy	11	17	35	87
15	16	22	13	... Pneumonia	24			
2	9	7	58	.... Carbuncle	2	....	....	2
3385	4204	3471	11060	Accidents, and all other Diseases	2850	3651	3052	9553
4837	7098	5118	17053	..... TOTAL	3836	5140	4340	19316

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. II.] WEEK ENDING SATURDAY, NOVEMBER 2, 1861. [No. 66.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.	NO RETURN.	INS.	INS.
Mean @ 32° F.	—	29·743	29·728		29·745	—
Highest (Unreduced)	—	30·182	30·176		30·230	—
Lowest (Unreduced)	—	29·199	29·250		29·244	—
Range	—	0·983	0·926		0·986	—
Temperature.						
Adopted Mean	45·2	45·0	43·5		44·3	43·3
Range for Week	18·0	20·4	25·0		26·8	21·5
Daily Range	6·7	12·4	13·6		11·6	11·0
Maximum in Shade	55·0	56·7	56·5		58·8	52·8
Minimum in Shade	37·0	29·0	31·5		32·0	31·3
Maximum in Sun	—	61·2	69·9		62·0	63·0
Maximum in Sun: Black bulb in Vacuo	—	73·3	—		—	—
Minimum on Grass	—	29·6	24·2		26·5	29·2
Temperature in Ground at surface	—	44·98	43·68		—	44·21
Temperature 6 inches below	—	46·65	44·60		—	—
Temperature 12 inches below	—	48·98	49·36		—	47·45
Temperature of Evaporation	42·8	42·5	41·0		41·9	40·8
Temperature of Dew Point	40·0	39·6	38·1		39·1	37·8
Temperature of Air—Dew Point	5·2	5·4	5·4		5·2	5·5
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·64	2·80	2·65		2·75	2·63
Required to Saturate do	0·60	0·60	0·60		0·58	0·83
Weight of a cubic foot of Air	546·5	545·8	547·4		547·1	535·3
Degree of Humidity (Saturation—1,000)	0·824	0·815	0·805		0·815	0·807
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	3·41	3·36	3·18		3·29	3·14
Elastic force of Vapour	0·247	0·243	0·230		0·238	0·227
Clouds (Covered—10 Clear—0)	—	7·5	5·7		5·7	6·9
Prevailing Winds	—	E, SE.	SW, SE, NW		Variable	NE.
Rain	—	0·333	0·340		0·373	0·245
Days on which it fell	—	3	3		2	3
Ozonometer.						
Moffat (0—10)	—	0·00	—		2·14	2·50
Schonbein (0—10)	—	0·00	—		—	—
	INS.	INS.	INS.		IN S.	INS.
Daily Evaporation	0·055	0·056	0·053		0·054	0·053
Weekly Evaporation	0·385	0·392	0·371		0·378	0·371

There were 5 barometric oscillations during the week, the amount being 1·319 inches. There were 4 temperature oscillations, the amount being 30·0°.

The mean temperature of the week was exactly the average of the last twelve years, and 1·6° below the corresponding week last year.

The mean temperature during the week was the highest in the city, and the lowest in the country.

The degree of humidity was the lowest at Sale, and the highest at the Royal Infirmary.

Ozone was not found at all during the week at Old Trafford, on four days at Thelwall, and every day at Ollerenshaw.

The rain fall at the several stations during October, 1861, has been as follows:

	Fall in Inches.	Days on which it Fell.
Old Trafford	1·230	16
Sale	1·140	10
Thelwall	1·450	15
Ollerenshaw	1·460	12

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
November 5th, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper,

During the Week ending Saturday

	MANCHESTER.														
Area in Statute Acres	..... Manchester Township 1,645														
Population in 1861	..... " " 185,050														
	Poor Law Districts.							Public Institut[I]ons.							
									Royal Infirmary.					Children	
DISEASES.	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	1	..	..	1	1	..	3	..	..	..	..	2	..	..	..
Scarlatina	..	..	1	..	..	..	1	..	..	..	..	...	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	1	2	..	10	13	..	..	1	..	..	..	5	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Diarrhœa.....	1	..	..	..	2	2	5	2	..	3	1	..	..	11	2
Dysentery	..	..	..	..	..	..	..	..	1	..	..	..	..	1	1
Continued Fever.....	2	1	3	..	4	1	11	7	7	..	2	*1	†4	12	1
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	1	..	3	..	..	4	5	3	17	4	1	1	..	..
Neuralgic Affections	..	..	..	1	..	..	1	..	..	4	..	..	..	..	2
Constitutional Syphilis	..	..	..	..	..	..	..	2	..	8	..	..	..	1	2
Phthisis	..	..	..	1	..	3	4	3	..	13	3	1	..	1	1
Insanity	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	..	3	2	4	5	..	14	11	2	50	6	5	4	28	5
Pleurisy and Pneumonia....	1	..	..	..	..	..	1	2	..	1	1	3	3	3	5
Skin Diseases.....	..	..	..	..	..	..	..	8	1	8	..	..	2	5	1
Dyspepsia	..	1	..	..	1	2	4	4	..	33	1	1	1	..	2
Accidents and diseases not classified.....	10	6	6	5	5	8	40	41	25	270	5	5	7	34	1
TOTAL	15	12	13	17	18	26	101	86	39	408	23	19	23	101	24

* Typhus Fever. † 1 Case Typhus Fever.

SANITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

November, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329	....		.... 477.	....		.. 646.	..	508.	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209.	..		.. 44,850	..	21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	6	..	1	2	1	..	3	..	..	4	22	Measles
..	1	..	2	..	..	..	.	..	..	..	4	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	4	..	..	..	3	2	4	..	2	..	35	Whooping-cough
..	..	..	..	..	..	..	1	..	..	..	2	Croup
2	3	1	..	1	..	..	4	..	4	2	44	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	3	Dysentery
1	2	..	1	2	4	1	5	..	5	4	71	Continued Fever
..	1	..	..	..	..	..	1	..	..	1	3	Erysipelas
..	5	4	..	..	..	1	..	..	6	1	53	Rheumatism
..	3	..	..	..	..	1	1	..	..	..	12	Neuralgic Affections
1	3	..	..	..	..	..	1	..	3	..	21	Constitutional Syphilis
..	9	1	..	..	..	1	..	..	5	1	43	Phthisis
3	1	..	..	..	..	1	..	..	..	1	7	Insanity
4	31	2	2	5	9	3	15	..	8	..	206	Bronchitis, Influenza, and Catarrah.
..	1	..	..	..	..	1	1	1	..	1	24	Pleurisy & Pneumonia.
..	11	..	..	..	..	..	3	..	..	3	42	Skin Disease.
..	10	2	..	2	..	..	1	..	10	..	71	Dyspepsia
5	54	5	2	4	3	5	34	2	35	..	588	Accidents and diseases not classified
16	145	15	8	16	20	16	74	3	78	18	1251	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN.
(2) ,, T. W. DYSON,
(3) ,, JOHN ARMSTRONG,
(4) Dr. J. O. FLETCHER,
(5) Mr. C. S. BOMPAS,
(6) ,, EVAN THOMAS,
(7) ,, J. BROADBENT,

(8) Mr. M. ROWLAND DAY,
(9) Mr. W. J. MALLETT,
(10) ,, W. H. HUGHES,
(11) ,, C. H. BRADDON,
(12)
(13) ,, H. RUNCORN,
(14) Dr. WHITEHEAD,

(15) Mr. W. GOLLAND,
(16) ,, J. TEALE,
(17) ,, T. F. BROWNBILL
(18) ,, J. O. BRADBURY,
(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,

(22) Mr. H. M. WILLIAMSON.
(23) ,, W. B. MIDWOOD,
(24) ,, JOHN RAYNER,
(25) ,, J. M. KIRKMAN.
(26) ,, A. F. PENNINGTON
(27) ,, J. V. L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	2	2	..	..	1	..	..	..	..	2	7	4
Whooping-cough	2	4	1	1	1	..	..	3	1	3	16	8
Scarlatina	..	..	..	..	..	..	1	..	1	..	2	2
Diarrhœa	1	2	1	..	3	1	1	..	..	1	10	23
Fever	..	1	4	..	1	..	2	1	..	..	9	17
Diseases of the Lungs	10	13	1	7	3	3	..	7	8	4	56	39
Other causes	14	8	11	9	11	*2	10	7	20	2	94	100
TOTAL NO. OF DEATHS.	29	30	18	17	20	6	14	18	30	12	194	193
TOTAL NO. OF BIRTHS.	38	38	19	23	21	36	22	18	41	23	279	282

* 1 Inquest.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,680.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

5 weeks ending 31st August.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	TOTAL.	DISEASES.	5 Weeks ending 31st August.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	TOTAL.
1	..	1	2	.... Small-pox	3	4	1	8
9	17	40	66	.... Chicken-pox	1	..	2	3
17	19	48	84	..... Measles	31	55	85	171
20	28	26	74	.... Scarlatina	5	10	25	40
....	2	3	5	.... Diphtheria	4	..	1	5
60	47	33	140	.. Whooping-cough ..	66	65	103	234
1	6	3	10	..... Croup	3	..	3	6
2386	1001	376	3763	.....Diarrhœa.. ...	629	414	175	1218
9	15	7	31	.... Dysentery	79	32	21	132
1	4	..	5	..... Cholera	6	..	..	6
17	20	16	53	.... Erysipelas	15	23	23	61
....	..	..	..	.. Puerperal Fever ..	....	..	..	..
17	15	8	40	..... Insanity	32	34	20	86
318	437	467	1222	Bronchitis and Catarrh	598	616	751	1965
13	7	13	33	..... Pleurisy	17	35	62	114
16	22	13	51	.. Pneumonia				
9	7	5	21	.... Carbuncle	....	....	..	..
4204	3471	3468	11143	Accidents, and all other Diseases	3651	3052	3205	9908
7098	5118	4527	16743	..... TOTAL	5140	4340	4477	13957

Erratum.—The total for July, August, and September, should have been 13,316.

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Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

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33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, NOVEMBER 9, 1861. [No. 67.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw, A. NEILD, Esq.
Barometer.	INS.	INS.	INS.		INS.	
Mean @ 32° F.	—	29·426	29·448		29·455	
Highest (Unreduced)	—	29·868	29·882		29·948	
Lowest (Unreduced)	—	29·232	29·254		29·284	
Range	—	0·636	0·628		0·664	
Temperature.						
Adopted Mean	41·3	39·2	37·3		39·9	
Range for Week	19·0	25·2	26·5		22·2	
Daily Range	10·8	14·9	21·2		14·1	
Maximum in Shade	52·0	52·0	52·0		52·2	
Minimum in Shade	33·0	26·8	25·5		30·0	
Maximum in Sun	—	53·0	62·0		58·8	
Maximum in Sun: Black bulb in Vacuo	—	64·0	—		—	
Minimum on Grass	—	25·0	19·0		21·0	
Temperature in Ground at surface	—	38·83	37·63		—	
Temperature 6 inches below	—	40·32	40·54		—	
Temperature 12 inches below	—	42·98	44·00		—	
Temperature of Evaporation	39·4	37·7	35·8		38·6	
Temperature of Dew Point	37·0	35·7	33·7		36·9	
Temperature of Air—Dew Point	4·3	3·5	3·6		3·0	
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	
Weight of Vapour in a cubic foot of Air	2·55	2·42	2·23		2·59	
Required to Saturate do	0·48	0·40	0·40		0·30	
Weight of a cubic foot of Air	544·8	546·5	549·2		546·0	
Degree of Humidity (Saturation—1,000)	0·854	0·880	0·873		0·896	
	INS.	INS.	INS.		INS.	
Water in a vertical column of the Atmosphere	3·05	2·89	2·67		3·03	
Elastic force of Vapour	0·220	0·209	0·193		0·219	
Clouds (Covered—10 Clear—0)	—	6·5	5·2		4·6	
Prevailing Winds	—	SE.	SW., NW.		S., NW.	
Rain	—	0·630	0·640		0·606	
Days on which it fell	—	4	4		3	
Ozonometer.						
Moffat (0—10)	—	1·14	—		2·71	
Schonbein (0—10)	—	1·00	—		—	
	INS.	INS.	INS.		INS.	
Daily Evaporation	0·040	0·030	0·030		0·027	
Weekly Evaporation	0·280	0·210	0·210		0·189	

NO RETURN. NO RETURN.

There were 7 barometric oscillations during the week, the amount being 1·410 inches. There were 5 temperature oscillations, the amount being 45·2°.

The mean temperature of the week was 4·3° below the average of the last twelve years, and 3·0° below the corresponding week last year.

The mean temperature was the highest at the Royal Infirmary and the lowest at Sale; the low mean temperature at the latter place is entirely owing to the low night temperatures registered at that station.

The degree of humidity was the highest at Thelwall, and the lowest at the Royal Infirmary.

Ozone occurred upon two days at Old Trafford, and every day at Thelwall.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
November 13th, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper,

During the Week ending Saturday

	MANCHESTER.														
Area in Statute Acres	..... Manchester Township 1,645														
Population in 1861	..... " " 185,050														
	Poor Law Districts.							Public Institutions.							
									Royal Infirmary.					Children	
DISEASES.	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts.	Workhouse. 7	In-patients. 8	Out-patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical Hospital. 14
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	1	..	..	1	2	..	..	..	..	1	2	2	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	2	1	..	5	8	..	..	3	..	1	1	3	3
Croup	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Diarrhœa.....	..	..	1	..	..	1	2	1	..	2	..	1	..	8	3
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1
Continued Fever.....	1	..	1	2	..	3	7	5	7	3	1	..	3	5	2
Erysipelas	..	1	..	1	..	..	2	..	..	..	..	1	1	..	..
Rheumatism	..	..	2	..	..	..	2	4	1	5	2	..	4	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1
Constitutional Syphilis	..	..	..	1	..	..	1	3	..	3	..	1	1	2	1
Phthisis	1	..	1	1	..	2	5	5	..	9	2	1	..	1	1
Insanity	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	2	2	1	7	6	7	25	32	..	46	5	6	7	17	3
Pleurisy and Pneumonia....	..	..	2	..	..	..	2	4	..	1	..	2	4	..	2
Skin Diseases.....	..	..	1	..	..	..	1	6	..	12	..	..	..	5	3
Dyspepsia	..	..	..	..	..	1	1	1	..	20	2	..	..	1	3
Accidents and diseases not classified.....	5	5	5	6	4	8	33	36	31	216	8	13	13	45	2
TOTAL	9	8	17	20	10	28	92	98	39	321	20	29	37	91	25

ANITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

November, 1861.

LFORD.			HULME.			CHORL-TON.		ARD WICK				
1,329	....	....	477.	....	..	646.	..	508	....	....	.....	Area in Statute Acres.
70,967.	....	..	68,209.	..	..	44,850	..	21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	5	..	1	..	7	..	4	..	..	2	29	Measles
..	..	..	1	..	..	..	3	..	..	..	6	Scarlatina
..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	5	1	2	1	28	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	1	Croup
..	..	*19	2	1	2	..	1	..	4	1	49	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	3	Dysentery
2	2	..	2	3	..	..	1	..	..	3	48	Continued Fever
..	2	..	..	..	..	..	1	..	..	1	8	Erysipelas
1	1	1	..	..	1	..	3	..	4	1	31	Rheumatism
..	1	..	1	..	2	..	..	..	1	..	8	Neuralgic Affections
2	2	..	..	..	..	..	2	..	1	1	21	Constitutional Syphilis
..	6	..	2	..	..	1	3	..	2	1	39	Phthisis
..	..	..	..	..	..	..	..	..	..	1	2	Insanity
2	35	5	2	5	7	1	12	1	5	..	218	Bronchitis, Influenza, and Catarral..
..	2	..	..	..	..	..	2	..	2	3	24	Pleurisy & Pneumonia.
..	9	..	..	..	..	1	..	..	..	4	41	Skin Disease.
..	13	..	..	1	2	..	4	..	4	1	53	Dyspepsia
7	48	3	2	5	1	1	33	1	39	..	544	Accidents and diseases not classified
14	126	28	13	15	22	4	74	3	64	20	1153	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns

(1) Mr. R. M. MANN.
(2) " T. W. DYSON,
(3) " JOHN ARMSTRONG,
(4) Dr. J. O. FLETCHER,
(5) Mr. C. S. BOMPAS,
(6) " EVAN THOMAS,
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(24) " JOHN RAYNER,
(25) " J. M. KIRKMAN.
(26) " A. F. PENNINGTON
(27) " J.V.L. WESTMACOTT

f a mild character, and attributed to the changeable state of the atmosphere, and were relieved by the usual treatment.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	2	..	1	1	1	..	..	..	3	..	8	4
Whooping-cough	5	5	..	1	1	..	..	1	7	..	20	8
Scarlatina	..	1	..	..	..	..	4	..	..	1	6	2
Diarrhœa	1	2	1	..	2	..	2	1	1	..	10	18
Fever	1	..	4	1	2	2	..	1	‡4	..	15	15
Diseases of the Lungs	16	10	..	10	4	7	4	4	7	6	68	45
Other causes	*29	8	21	4	6	†9	9	8	22	2	118	102
TOTAL NO. OF DEATHS.	54	26	27	17	16	18	19	15	44	9	245	194
TOTAL NO. OF BIRTHS.	43	30	13	26	18	23	20	29	56	17	275	279

* 14 Inquests. † 3 Inquests. ‡ 1 Typhus Fever.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson,
Population in 1861, 161,680.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

5 weeks ending 31st August.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	TOTAL.	DISEASES.	5 Weeks ending 31st August.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	TOTAL.
1	..	1	2	.... Small-pox	3	4	1	8
9	17	40	66	.... Chicken-pox	1	..	2	3
17	19	48	84	..... Measles	31	55	85	171
20	28	26	74	.... Scarlatina	5	10	25	40
....	2	3	5	.... Diphtheria	4	..	1	5
60	47	33	140	.. Whooping-cough ..	66	65	103	234
1	6	3	10	..... Croup	3	..	3	6
2386	1001	376	3763	.....Diarrhœa.. ...	629	414	175	1218
9	15	7	31	.... Dysentery	79	32	21	132
1	4	..	5	..... Cholera	6	..	..	6
17	20	16	53	.... Erysipelas	15	23	23	61
....	..	..	..	.. Puerperal Fever ..	....	..	..	..
17	15	8	40	..... Insanity	32	34	20	86
318	437	467	1222	Bronchitis and Catarrh	598	616	751	1965
13	7	13	33	..... Pleurisy	17	35	62	114
16	22	13	51	.. Pneumonia				
9	7	5	21	.... Carbuncle	....	....	..	..
4204	3471	3468	11143	Accidents, and all other Diseases	3651	3052	3205	9908
7098	5118	4527	16743	..... TOTAL	5140	4340	4477	13957

Erratum.—The total for July, August, and September, should have been 13,316.

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, NOVEMBER 16, 1861. [No. 68.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw, A. NEILD, Esq.
Barometer.	INS.	INS.	INS.		INS.	
Mean @ 32° F.	—	29·386	—		29·385	
Highest } Unreduced	—	29·742	—		29·750	
Lowest } Unreduced	—	28·902	—		28·946	
Range	—	0·840	—		0·804	
Temperature.						
Adopted Mean	38·4	35·9	34·3		36·6	
Range for Week	18·0	29·6	29·3		25·1	
Daily Range	8·3	12·7	16·4		11·1	
Maximum in Shade	46·0	48·8	48·8		48·5	
Minimum in Shade	28·0	19·8	19·5		23·4	
Maximum in Sun	—	50·5	55·0		53·0	
Maximum in Sun: Black bulb in Vacuo	—	64·0	—		—	
Minimum on Grass	—	14·2	12·5		17·3	
Temperature in Ground at surface	—	36·87	35·61		—	
Temperature 6 inches below	—	37·98	38·40		—	
Temperature 12 inches below	—	40·26	41·14		—	
Temperature of Evaporation	36·6	34·7	32·5		35·5	
Temperature of Dew Point	34·2	32·9	29·2		34·0	
Temperature of Air—Dew Point	4·2	3·0	5·1		2·6	
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	
Weight of Vapour in a cubic foot of Air	2·28	2·12	1·92		2·29	
Required to Saturate do	0·46	0·37	0·41		0·27	
Weight of a cubic foot of Air	547·4	549·4	551·5		548·8	
Degree of Humidity (Saturation—1,000)	0·854	0·889	0·811		0·907	
	INS.	INS.	INS.		INS.	
Water in a vertical column of the Atmosphere	2·72	2·61	2·23		2·71	
Elastic force of Vapour	0·197	0·187	0·161		0·196	
Clouds (Covered—10 Clear—0)	—	6·8	6·7		6·9	
Prevailing Winds	—	SW., NW.	SW.SE.NW.		Variable.	
Rain	—	0·446	0·490		0·590	
Days on which it fell	—	5	5		5	
Ozonometer.						
Moffat (0—10)	—	2·71	—		3·21	
Schonbein (0—10)	—	1·71	—		—	
	INS.	INS.	INS.		INS.	
Daily Evaporation	0·035	0·024	0·037		0·021	
Weekly Evaporation	0·245	0·168	0·259		0·147	

NO RETURN.

NO RETURN.

There were 6 barometric oscillations during the week, the amount being 2·373 inches. There were 4 temperature oscillations, the amount being 35·2°.

The mean temperature of the week was 4·0° below the average of the last twelve years, and 3·2° below the corresponding week last year.

The mean temperature was the highest at the Royal Infirmary and the lowest at Sale. The temperature early on the morning of the 16th was excessively cold, the lowest temperature at 8 a.m. occurred at Old Trafford and the lowest minimum at Sale.

Ozone occurred upon three days at Old Trafford and five days at Thelwall.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
November 20th, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper,

During the Week ending Saturday,

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1861	" " 185,050														
	Poor Law Districts.							Public Institutions.							
									Royal Infirmary.					Childre	
DISEASES.	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	1	2	..	3	..	..	1	..	1	1	1	1
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	6	.
Whooping-cough	..	..	..	2	..	4	6	..	..	2	..	..	1	..	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	1	3	..	1	1	..	6	2	..	1	2	..	..	2	
Dysentery	..	..	..	1	..	..	1	1	..	..	1	..	..	..	.
Continued Fever	*)	..	1	2	1	..	5	3	5	1	2	7	4	3	.
Erysipelas	1	..	..	..	..	..	1	..	..	1	..	..	1	..	.
Rheumatism	1	..	2	3	..	1	7	6	..	17	..	1	..	..	.
Neuralgic Affections	..	..	..	..	..	..	..	..	1	1	..	..	..	..	
Constitutional Syphilis	1	..	..	..	..	1	2	7	..	7	1	..	..	..	
Phthisis	..	1	..	..	..	1	2	..	2	20	5	1	..	2	
Insanity	..	1	..	..	..	..	1	6	..	..	..	..	..	..	.
Bronchitis, Influenza & Catarrh	2	3	8	3	6	9	31	24	..	68	5	4	5	25	
Pleurisy and Pneumonia	..	..	..	..	..	..	..	1	..	2	1	2	4	..	
Skin Diseases	..	..	..	..	..	..	..	8	..	10	..	..	2	5	
Dyspepsia	2	..	1	..	..	1	4	2	..	24	1	..	..	2	
Accidents and diseases not classified	14	4	8	2	2	8	38	34	38	223	8	5	11	26	
TOTAL	23	12	20	15	12	25	107	94	47	378	26	21	29	72	2

* Typhus.

SANITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

November, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329	....	....	477.	....	..	646.	..	508.	....	....	.....	Area in Statute Acres.
70,967.	....	..	68,209.	..	..	44,850	..	21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27		
..	2	..	..	..	..	..	..	..	..	..	3	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	13	..	2	..	..	..	1	..	..	..	24	Measles
..	..	..	1	..	..	..	†2	..	..	..	3	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	6	Diphtheria
..	2	..	1	1	2	..	..	..	4	2	22	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
1	4	2	..	..	2	..	2	..	3	..	29	Diarrhœa
..	2	..	..	..	..	..	..	1	..	..	6	Dysentery
..	3	..	3	2	2	1	‡3	..	4	2	55	Continued Fever
..	..	..	..	..	1	..	1	..	..	1	6	Erysipelas
1	9	2	..	..	2	1	2	..	5	..	55	Rheumatism
..	3	..	..	..	..	..	..	1	..	1	8	Neuralgic Affections
..	3	..	..	..	..	..	..	..	3	..	25	Constitutional Syphilis
..	7	..	..	..	..	..	2	..	..	1	43	Phthisis
3	..	..	..	..	..	..	..	..	..	..	10	Insanity
3	23	9	3	9	4	4	24	3	6	2	262	Bronchitis, Influenza, and Catarrah.
..	4	..	..	..	..	1	3	..	..	2	26	Pleurisy & Pneumonia.
3	8	..	1	..	..	..	1	..	2	2	46	Skin Disease.
..	5	..	..	..	3	..	2	..	9	..	55	Dyspepsia
9	27	3	3	4	4	1	27	2	32	3	509	Accidents and diseases not classified
20	115	16	14	16	20	8	70	7	68	16	1193	TOTAL.

† Malignant. ‡ 1 Typhus.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN.
(2) " T. W. DYSON,
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	2	..	1	..	..	..	..	1	5	..	9	5
Whooping-cough	5	4	..	4	2	..	..	1	3	..	19	12½
Scarlatina	..	..	..	1	1	..	..	..	..	..	2	3
Diarrhœa	..	2	1	..	..	1	..	..	1	..	5	14
Fever	2	2	1	3	1	1	*2	..	1	..	13	15
Diseases of the Lungs	17	12	..	11	11	4	..	4	11	5	75	54
Other causes	12	9	16	4	9	6	13	†9	33	‡13	124	101½
TOTAL NO. OF DEATHS.	38	29	19	23	24	12	15	15	54	18	247	205
TOTAL NO. OF BIRTHS.	28	18	6	23	9	33	45	36	59	16	273	228

* 1 Typhus Fever. † 6 Inquests. ‡ 6 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,680.

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1	..	1	2	.... Small-pox	3	4	1	8
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17	19	48	84	..... Measles	31	55	85	171
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1	4	..	5	..... Cholera	6	..	..	6
17	20	16	53	.... Erysipelas	15	23	23	61
....	..	..	..	.. Puerperal Fever ..	....	..	..	..
17	15	8	40	..... Insanity	32	34	20	86
318	437	467	1222	Bronchitis and Catarrh	598	616	751	1965
13	7	13	33	..... Pleurisy	17	35	62	114
16	22	13	51	... Pneumonia				
9	7	5	21	.... Carbuncle	....	....	..	..
4204	3471	3468	11143	Accidents, and all other Diseases	3651	3052	3205	9908
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HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. II.] WEEK ENDING SATURDAY, NOVEMBER 23, 1861. [No. 69.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.		INS.	
Mean @ 32° F.	—	29·779	29·778		29·791	
Highest (Unreduced)	—	30·384	30·418		30·410	
Lowest (Unreduced)	—	29·204	29·242		29·250	
Range	—	1·180	1·176		1·160	
Temperature.						
Adopted Mean	38·8	36·2	37·0		37·5	
Range for Week	26·0	32·6	35·6		32·5	
Daily Range	10·4	15·1	14·3		12·8	
Maximum in Shade	52·0	51·6	52·0		52·0	
Minimum in Shade	26·0	19·0	16·4		19·5	
Maximum in Sun	—	49·0	57·8		53·0	
Maximum in Sun: Black bulb in Vacuo	—	49·8	—		—	
Minimum on Grass	—	16·0	11·2		16·3	
Temperature in Ground at surface	—	36·72	36·21		—	
Temperature 6 inches below	—	37·22	37·94		—	
Temperature 12 inches below	—	38·58	39·18		—	
Temperature of Evaporation	37·4	35·0	35·4		36·3	
Temperature of Dew Point	35·5	33·2	32·7		34·7	
Temperature of Air—Dew Point	3·3	3·0	4·3		2·8	
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	
Weight of Vapour in a cubic foot of Air	2·44	2·18	2·06		2·34	
Required to Saturate do	0·34	0·34	0·58		0·31	
Weight of a cubic foot of Air	554·7	555·4	555·8		555·3	
Degree of Humidity (Saturation—1,000)	0·890	0·894	0·802		0·897	
	INS.	INS.	INS.		INS.	
Water in a vertical column of the Atmosphere	2·88	2·61	2·57		2·78	
Elastic force of Vapour	0·208	0·189	0·186		0·201	
Clouds (Covered—10 Clear—0)	—	7·1	5·8		6·6	
Prevailing Winds	—	S., SW.	SW.		S., SE.	
Rain	—	0·867	0·580		0·431	
Days on which it fell	—	4	5		4	
Ozonometer.						
Moffat (0—10)	—	2·57	—		3·93	
Schonbein (0—10)	—	2·14	—		—	
	INS.	INS.	INS.		INS.	
Daily Evaporation	0·028	0·025	0·034		0·024	
Weekly Evaporation	0·196	0·175	0·238		0·168	

NO RETURN.

NO RETURN.

There were 5 barometric oscillations during the week, the amount being 2·268 inches. There were 4 temperature oscillations, the amount being 57·6°.

The mean temperature of the week was 3·8° below the average of the last twelve years, and 1·1° below the corresponding week last year.

The mean temperature was the highest at the Royal Infirmary and the lowest at Old Trafford.

The fall of rain during the week appears to have increased as the station approached nearer Manchester.

Ozone occurred upon three days at Old Trafford and six days at Thelwall.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
November 27th, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper

During the Week ending Saturday

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1861	" " 185,050														
	Poor Law Districts.							Public Institutions.							
									Royal Infirmary.					Childri	
DISEASES.	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts.	Workhouse. 7	In-patients. 8	Out-patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical 14
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Measles	..	..	..	..	1	..	1	..	..	5	..	..	1	1	
Scarlatina	..	..	1	..	..	..	1	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	1	..	3	4	..	7	15	3	..	6	..	..	..	5	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	..	..	..	..	..	1	1	..	..	3	..	..	..	6	.
Dysentery	..	..	..	3	..	..	3	..	..	..	..	..	..	..	.
Continued Fever	..	..	2	1	7	5	15	13	3	..	1	6	2	7	
Erysipelas	..	..	..	..	..	..	..	1	..	1	..	..	1	..	.
Rheumatism	..	1	..	..	..	2	3	3	1	14	..	2	1	..	.
Neuralgic Affections	..	..	..	..	..	1	1	..	..	..	..	..	2	..	
Constitutional Syphilis	..	..	..	..	..	..	..	2	..	7	..	..	..	1	.
Phthisis	..	..	3	..	..	4	7	5	..	23	3	1	2	..	
Insanity	..	..	1	..	..	..	1	..	..	..	..	..	..	..	.
Bronchitis, Influenza & Catarrh	3	2	9	12	9	8	43	30	..	87	8	9	5	22	
Pleurisy and Pneumonia	3	..	1	..	..	..	4	1	..	..	..	2	2	..	
Skin Diseases	..	..	2	..	..	..	2	12	..	7	..	..	..	6	
Dyspepsia	2	1	..	..	..	4	7	1	1	22	1	1	2	1	
Accidents and diseases not classified	8	6	6	5	4	8	37	32	24	202	5	4	18	39	
TOTAL	17	10	28	25	21	40	141	103	29	377	18	25	36	88	20

SANITARY ASSOCIATION.

l Public Institutions of Manchester and adjoining Districts,

r *November*, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329	....		.... 477.			.. 646. ..		508.	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209. ..			.. 44,850 ..		21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	11	..	..	..	1	1	6	..	..	..	29	Measles
..	..	..	..	..	..	..	..	..	..	..	1	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	7	..	..	1	5	..	2	..	5	2	57	Whooping-cough
..	1	..	..	..	..	..	..	..	..	..	1	Croup
1	2	2	..	..	2	..	2	..	4	1	26	Diarrhœa
..	1	..	..	..	1	1	..	..	..	..	6	Dysentery
1	5	..	1	2	..	1	3	..	3	1	66	Continued Fever
..	2	..	..	..	..	..	1	..	1	1	8	Erysipelas
..	6	4	..	..	..	..	2	1	6	*1	47	Rheumatism
..	..	..	1	..	..	..	..	..	1	..	6	Neuralgic Affections
..	1	..	..	..	..	..	..	..	4	1	18	Constitutional Syphilis
..	5	..	..	..	..	1	2	..	8	..	62	Phthisis
1	..	..	..	..	..	..	..	..	..	2	4	Insanity
2	37	4	4	9	13	3	11	3	10	2	318	Bronchitis, Influenza, and Catarrah.
..	2	2	2	1	..	..	3	..	..	..	21	Pleurisy & Pneumonia.
..	6	..	..	..	..	1	..	1	..	..	37	Skin Disease.
1	9	..	..	..	1	..	3	..	5	1	57	Dyspepsia
7	59	5	1	7	2	6	43	2	30	..	530	Accidents and diseases not classified
13	154	17	9	20	25	14	78	7	77	12	1294	TOTAL.

* Under 7 years of age.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN.
(2) " T. W. DYSON,
(3) " JOHN ARMSTRONG,
(4) Dr. J. O. FLETCHER,
(5) Mr. C. S. BOMPAS,
(6) " EVAN THOMAS,
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(8) Mr. M. ROWLAND DAY,
(9) } Mr. W. J. MALLETT,
(10) } " W. H. HUGHES,
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(15) Mr. W. GOLLAND,
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(24) " JOHN RAYNER,
(25) " J. M. KIRKMAN.
(26) " A. F. PENNINGTON
(27) " J.V.L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	3	2	1	1	1	3	1	..	2	..	14	7
Whooping-cough	2	6	..	2	2	1	1	2	2	..	18	16
Searlatina	..	1	..	..	..	..	1	..	1	..	3	4
Diarrhœa	3	1	4	3	1	1	1	..	2	..	16	10
Fever	..	1	5	1	1	1	2	3	†4	..	18	13
Diseases of the Lungs	24	13	2	8	5	13	2	6	20	5	98	61
Other causes	17	9	37	9	6	*11	14	8	17	6	134	107
TOTAL NO. OF DEATHS.	49	33	49	24	16	30	22	19	48	11	301	218
TOTAL NO. OF BIRTHS.	42	23	27	16	9	35	15	25	54	19	265	275

* 2 Inquests. † 1 Typhus Fever.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.
Population in 1861, 161,680.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

5 weeks ending 31st August.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	TOTAL.	DISEASES.	5 Weeks ending 31st August.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	TOTAL.
1	..	1	2	.... Small-pox	3	4	1	8
9	17	40	66	.... Chicken-pox	1	..	2	3
17	19	48	84	..... Measles	31	55	85	171
20	28	26	74	.... Scarlatina	5	10	25	40
....	2	3	5	.... Diphtheria	4	..	1	5
60	47	33	140	.. Whooping-cough ..	66	65	103	234
1	6	3	10	..... Croup	3	..	3	6
2386	1001	376	3763	.....Diarrhœa.. ...	629	414	175	1218
9	15	7	31	.... Dysentery	79	32	21	132
1	4	..	5	..... Cholera	6	..	..	6
17	20	16	53	.... Erysipelas	15	23	23	61
....	..	..	..	.. Puerperal Fever ..	....	..	..	..
17	15	8	40	..... Insanity	32	34	20	86
318	437	467	1222	Bronchitis and Catarrh	598	616	751	1965
13	7	13	33	..... Pleurisy	17	35	62	114
16	22	13	51	... Pneumonia				
9	7	5	21	.... Carbuncle	....	....	..	..
4204	3471	3468	11143	Accidents, and all other Diseases	3651	3052	3205	9908
7098	5118	4527	16743	..... TOTAL	5140	4340	4477	13957

Erratum.—The total for July, August, and September, should have been 13,316.

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. II.] WEEK ENDING SATURDAY, NOVEMBER 30, 1861. [No. 70.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.		INS.	
Mean @ 32° F.	—	29·557	29·612		29·579	
Highest (Unreduced)	—	29·858	29·836		29·950	
Lowest (Unreduced)	—	29·204	29·270		29·236	
Range	—	0·654	0·566		0·714	
Temperature.						
Adopted Mean	43·0	40·0	41·2		40·3	
Range for Week	30·0	34·0	36·5		33·2	
Daily Range	13·9	19·3	17·3		13·9	
Maximum in Shade	57·0	56·0	57·0		55·6	
Minimum in Shade	27·0	22·0	20·5		22·4	
Maximum in Sun	—	55·3	—		58·5	
Maximum in Sun: Black bulb in Vacuo	—	64·0	68·8		—	
Minimum on Grass	—	12·8	15·5		13·0	
Temperature in Ground at surface	—	39·91	40·40		—	
Temperature 6 inches below	—	39·81	40·73		—	
Temperature 12 inches below	—	40·47	41·50		—	
Temperature of Evaporation	41·3	38·7	39·2		39·4	
Temperature of Dew Point	39·3	37·0	36·7	NO RETURN.	38·3	NO RETURN.
Temperature of Air—Dew Point	3·7	3·0	4·5		2·0	
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	
Weight of Vapour in a cubic foot of Air	2·76	2·54	2·52		2·69	
Required to Saturate do	0·44	0·36	0·50		0·24	
Weight of a cubic foot of Air	545·4	548·0	547·8		548·2	
Degree of Humidity (Saturation—1,000)	0·864	0·896	0·844		0·928	
	INS.	INS.	INS.		INS.	
Water in a vertical column of the Atmosphere	3·32	3·04	3·01		3·19	
Elastic force of Vapour	0·240	0·220	0·218		0·231	
Clouds (Covered—10 Clear—0)	—	7·4	7·1		6·7	
Prevailing Winds	—	Variable.	SW.		W., SE.	
Rain	—	1·605	1·550		1·664	
Days on which it fell	—	5	6		5	
Ozonometer.						
Moffat (0—10)	—	3·28	—		4·14	
Schonbein (0—10)	—	2·28	—		—	
	INS.	INS.	INS.		INS.	
Daily Evaporation	0·037	0·027	0·041		0·019	
Weekly Evaporation	0·259	0·189	0·287		0·133	

There were 6 barometric oscillations during the week, the amount being 2·009 inches. There were 5 temperature oscillations, the amount being 87·8°; this is a very large amount, and is greater than that of any preceeding week this year.

The mean temperature of the week was 1·3° above the average of the last twelve years, and 0·9° below the corresponding week last year.

The mean temperature was the highest at the Royal Infirmary and the lowest at Old Trafford.

The degree of humidity was the least at Sale and the greatest at Thelwall.

Ozone occurred upon four days at Old Trafford and six days at Thelwall.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
December 4th, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper,

During the Week ending Saturday,

	MANCHESTER.															
Area in Statute Acres	..... Manchester Township 1,645															
Population in 1861	..... " " 185,050															
	Poor Law Districts.							Public Institutions.								
									Royal Infirmary.					Children		
DISEASES.	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	
Small-pox	..	..	..	..	..	*1	1	..	..	..	..	..	..	..	..	
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Measles	..	..	5	..	2	1	8	..	..	..	..	2	3	1	1	
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough	..	..	4	2	1	6	13	..	..	3	..	1	1	..	4	
Croup	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	
Diarrhœa.....	..	1	..	..	..	..	1	1	..	..	..	..	1	3	2	
Dysentery	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	
Continued Fever.....	..	..	3	8	2	5	18	10	5	3	2	3	4	7	4	
Erysipelas	..	..	..	..	..	1	1	..	..	4	..	..	1	..	..	
Rheumatism	2	2	..	3	..	1	8	2	1	7	3	1	2	4	..	
Neuralgic Affections	..	..	..	..	..	..	..	..	..	7	1	..	..	..	1	
Constitutional Syphilis	..	..	..	2	..	..	2	3	..	2	..	..	..	..	..	
Phthisis	1	..	2	1	..	..	4	1	..	26	3	3	2	..	..	
Insanity	..	..	..	1	..	..	1	4	..	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	1	4	10	10	12	9	46	25	..	63	6	8	12	15	4	
Pleurisy and Pneumonia....	1	..	..	..	..	1	2	..	..	..	..	1	3	2	1	
Skin Diseases.....	..	..	..	..	..	..	..	6	1	13	..	..	..	3	3	
Dyspepsia	1	..	2	1	..	2	6	4	..	15	..	1	2	..	2	
Accidents and diseases not classified.....	15	13	3	7	3	4	45	34	30	184	6	7	3	29	3	
TOTAL	21	20	29	36	20	31	157	90	37	327	21	29	34	65	25	

* Male, 15 years old, unvaccinated.

ANITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

November, 1861.

LFORD.			HULME.			CHORL-TON.		ARD-WICK				
1,329	....		.... 477.	....		.. 646.	..	508.	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209.	..		.. 44,850	..	21739	....	....	.....	Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
2	7	..	..	1	..	1	+4	..	..	2	32	Measles
..	..	..	..	..	..	..	..	..	..	..	1	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	9	..	..	1	3	..	2	..	4	1	42	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	2	Croup
..	2	2	1	..	..	..	3	..	3	..	19	Diarrhœa
..	..	..	..	..	1	..	..	..	..	..	3	Dysentery
1	2	..	2	2	2	..	2	..	4	..	72	Continued Fever
..	..	..	..	..	..	..	2	..	..	1	9	Erysipelas
..	5	1	..	3	..	1	5	..	8	2	53	Rheumatism
..	5	..	..	1	..	..	..	..	5	..	20	Neuralgic Affections
..	1	..	..	..	..	..	..	..	4	1	14	Constitutional Syphilis
2	7	..	1	1	..	..	2	1	5	2	60	Phthisis
2	..	..	..	..	..	..	..	..	..	1	8	Insanity
7	33	10	4	4	9	5	9	..	11	..	278	Bronchitis, Influenza, and Catarrah.
1	1	..	1	..	..	..	3	1	1	2	19	Pleurisy & Pneumonia.
3	3	..	1	..	..	..	..	..	..	..	33	Skin Disease.
..	5	..	2	..	2	..	3	..	6	..	48	Dyspepsia
9	52	6	2	7	2	2	39	1	28	4	503	Accidents and diseases not classified
27	132	19	14	20	19	9	74	3	79	16	1217	TOTAL.

+ 1 Complicated with Pneumonia.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN.
(2) " T. W. DYSON,
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	3	1	..	2	..	4	..	1	..	..	11	9½
Whooping-cough	..	6	2	3	1	1	1	2	2	2	20	18
Scarlatina	..	..	..	..	..	..	3	..	1	..	4	3
Diarrhœa	1	1	..	1	1	4	1	2	..	..	11	10
Fever	2	2	..	1	1	..	2	1	2	..	11	14
Diseases of the Lungs	18	19	1	7	8	8	4	1	9	2	77	74
Other eauses	13	11	57	12	6	7	5	5	13	7	136	117
TOTAL NO. OF DEATHS.	37	40	60	26	17	24	16	12	27	11	270	245½
TOTAL NO. OF BIRTHS.	44	39	16	14	14	36	20	36	58	18	295	273

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,680.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

5 weeks ending 31st August.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	TOTAL.	DISEASES.	5 Weeks ending 31st August.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	TOTAL.
1	..	1	2	.... Small-pox	3	4	1	8
9	17	40	66	.... Chicken-pox	1	..	2	3
17	19	48	84	..... Measles	31	55	85	171
20	28	26	74	.... Scarlatina	5	10	25	40
....	2	3	5	.... Diphtheria	4	..	1	5
60	47	33	140	.. Whooping-cough ..	66	65	103	234
1	6	3	10	..... Croup	3	..	3	6
2386	1001	376	3763	.....Diarrhœa.. ...	629	414	175	1218
9	15	7	31	.... Dysentery	79	32	21	132
1	4	..	5	..... Cholera	6	..	..	6
17	20	16	53	.... Erysipelas	15	23	23	61
....	..	..	..	.. Puerperal Fever ..	....	..	..	..
17	15	8	40	..... Insanity	32	34	20	86
318	437	467	1222	Bronchitis and Catarrh	598	616	751	1965
13	7	13	33	..... Pleurisy	17	35	62	114
16	22	13	51	... Pneumonia				
9	7	5	21	.... Carbuncle	....	....	..	..
4204	3471	3468	11143	Accidents, and all other Diseases	3651	3052	3205	9908
7098	5118	4527	16743	..... TOTAL	5140	4340	4477	13957

Erratum.—The total for July, August, and September, should have been 13,316.

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, DECEMBER 7, 1861. [No. 71.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.		INS.	INS.
Mean @ 32° F.	—	29·726	29·781		29·754	—
Highest (Unreduced)	—	30·312	30·316		30·344	—
Lowest (Unreduced)	—	29·040	29·146		29·144	—
Range	—	1·272	1·170		1·200	—
Temperature.						
Adopted Mean	41·0	38·5	38·4		39·6	38·0
Range for Week	20·0	23·0	27·3		23·2	20·7
Daily Range	10·3	13·5	14·6		12·7	10·1
Maximum in Shade	52·0	50·0	51·3		50·2	49·5
Minimum in Shade	32·0	27·0	24·0		27·0	28·8
Maximum in Sun	—	48·2	—		54·5	47·2
Maximum in Sun: Black bulb in Vacuo	—	61·0	69·8		—	—
Minimum on Grass	—	21·0	20·2		18·0	21·0
Temperature in Ground at surface	—	37·98	37·21		—	—
Temperature 6 inches below	—	38·28	38·84		—	—
Temperature 12 inches below	—	40·38	40·85		—	—
Temperature of Evaporation	39·2	37·5	36·7		38·7	36·6
Temperature of Dew Point	37·2	36·2	34·4		37·5	34·7
Temperature of Air—Dew Point	3·8	2·3	4·0		2·1	3·3
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·54	2·50	2·30		2·65	2·38
Required to Saturate do	0·46	0·25	0·44		0·21	0·38
Weight of a cubic foot of Air	550·6	553·0	554·5		552·1	542·4
Degree of Humidity (Saturation—1,000)	0·824	0·918	0·862		0·928	0·878
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	3·07	2·96	2·75		3·11	2·77
Elastic force of Vapour	0·222	0·214	0·199		0·225	0·201
Clouds (Covered—10 Clear—0)	—	7·6	6·8		6·7	8·0
Prevailing Winds	—	S., SE.	SW.		Variable.	SE., NW.
Rain	—	1·083	1·010		0·067	1·180
Days on which it fell	—	4	5		3	5
Ozonometer.						
Moffat (0—10)	—	1·85	—		1·86	4·50
Schonbein (0—10)	—	0·86	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·035	0·019	0·033		0·018	0·028
Weekly Evaporation	0·245	0·133	0·231		0·126	0·196

NO RETURN.

There were 5 barometric oscillations during the week, the amount being 2·348 inches. There were 4 temperature oscillations during the week, the amount being 40·6°.

The mean temperature of the week was exactly the average of the last twelve years, and 6·6° below the corresponding week last year.

The mean temperature was the highest at the Royal Infirmary and the lowest at Ollerenshaw.

The greatest degree of humidity occurred at Thelwall and the least at the Royal Infirmary.

Ozone occurred upon two days at Old Trafford, on seven at Ollerenshaw, and five at Thelwall.

The fall of rain during November at the several stations has been as follows :—

	Fall in Inches.	Days on which it Fell.
Old Trafford	3·878	20
Sale	3·490	22
Thelwall	3·664	19

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
December 10th, 1861.

MANCHESTER AND

New Cases of Disease coming under Treatment in Pau

During the Week ending Satu

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1861	" " 185,050													
DISEASES.	Poor Law Districts.							Public Institutions						
									Royal Infirmary.					Cr
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts.	Workhouse. 7	In-patients. 8	Out-patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's 13
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	
Measles	..	2	2	..	1	..	5	..	..	..	..	..	..	
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	2	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	1	..	2	6	9	..	..	4	..	..	..	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	..	2	1	..	1	..	4	1	..	..	1	..	..	
Dysentery	..	..	..	1	..	..	1	..	..	..	.	..	..	.
Continued Fever	3	1	..	..	2	4	10	9	3	1	4	2	2	
Erysipelas	..	..	..	..	..	1	1	1	1	4	1	..	1	.
Rheumatism	2	1	1	..	1	1	6	3	1	9	..	3	4	
Neuralgic Affections	..	..	..	..	..	..	..	..	..	6	..	..	..	.
Constitutional Syphilis	..	..	..	..	..	..	..	2	..	7	1	5	2	
Phthisis	..	..	..	1	..	1	2	7	1	30	1	..	1	
Insanity	..	1	..	..	..	..	1	..	..	..	..	..	..	.
Bronchitis, Influenza & Catarrh	4	3	10	6	8	19	50	16	..	59	9	5	10	1
Pleurisy and Pneumonia	..	..	..	..	..	..	..	..	..	..	..	4	..	.
Skin Diseases	..	..	..	..	..	..	..	11	..	19	..	..	1	
Dyspepsia	2	..	..	..	..	..	2	2	..	20	3	1	2	
Accidents and diseases not classified	9	9	13	6	2	14	53	43	27	200	9	9	16	2
TOTAL	20	19	28	14	17	46	144	95	33	359	29	31	39	6

* Bronchitis and Pneumonia with a low type of fever, very

SANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

f December, 1861.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
... 1,329				.... 477.			.. 646. ..		508.	....	....	.....	Area in Statute Acres.
... 70,967.				.. 68,209. ..			.. 44,850 ..		21739	....	....	.....	Population in 1861.
POOR LAW DIS-	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Greengate.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
16	17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox
..	..	6	..	2	1	1	..	7	..	..	2	26	Measles
..	..	..	..	..	..	..	..	1	..	..	..	3	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	12	..	..	..	1	..	3	..	4	..	39	Whooping-cough
..	..	1	..	..	..	..	..	..	..	..	..	1	Croup
..	..	2	3	..	..	1	..	1	..	3	..	20	Diarrhœa
..	..	..	..	..	..	..	..	..	..	4	..	5	Dysentery
1	1	5	..	..	1	2	..	2	..	5	..	53	Continued Fever
..	..	1	..	..	..	..	..	2	..	1	1	14	Erysipelas
1	..	7	..	..	1	..	1	3	..	8	2	52	Rheumatism
..	..	4	..	..	1	..	..	..	..	..	4	15	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	1	20	Constitutional Syphilis
1	1	7	..	2	..	..	..	2	1	..	2	60	Phthisis
1	4	1	..	..	..	..	..	..	..	..	1	8	Insanity
3	4	39	10	5	1	9	3	12	..	12	4	274	Bronchitis, Influenza, and Catarrah.
..	..	1	..	..	..	..	..	4	..	2	..	12	Pleurisy & Pneumonia.
..	2	8	..	..	..	..	1	2	..	..	2	55	Skin Disease.
..	..	10	..	..	2	3	..	2	1	5	..	58	Dyspepsia
6	6	31	3	4	2	4	4	40	3	32	5	524	Accidents and diseases not classified
13	18	135	16	13	9	21	9	81	5	76	24	1240	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN.
(2) " T. W. DYSON,
(3) " JOHN ARMSTRONG,
(4) Dr. J. O. FLETCHER,
(5) Mr. C. S. BOMPAS,
(6) " EVAN THOMAS,
(7) " J. BROADBENT,
(8) Mr. M. ROWLAND DAY,
(9) Mr. W. J. MALLETT,
(10) " W. H. HUGHES,
(11) " C. H. BRADDON,
(12)
(13) " H. RUNCORN,
(14) Dr. WHITEHEAD,
(15) Mr. W. GOLLAND,
(16) " J. TEALE,
(17) " T. F. BROWNBILL
(18) " J. O. BRADBURY,
(19) " W. B. STOTT,
(20) " T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.
(23) " W. B. MIDWOOD,
(24) " JOHN RAYNER,
(25) " J. M. KIRKMAN.
(26) " A. F. PENNINGTON
(27) " J. V. L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tushp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	4	4	..	1	..	1	..	3	1	..	14	10
Whooping-cough	11	2	1	1	..	2	.	1	3	1	22	19
Scarlatina	..	3	1	..	..	..	..	..	..	..	4	4
Diarrhœa	1	..	..	..	..	1	..	..	..	..	2	10
Fever	2	2	1	..	..	1	4	¶1	1	..	12	14
Diseases of the Lungs	27	10	..	†10	6	6	2	6	15	6	88	79
Other causes	16	*9	21	14	3	‡8	20	⁑10	23	‖9	133	128
TOTAL NO. OF DEATHS.	61	30	24	26	9	19	26	21	43	16	275	264
TOTAL NO. OF BIRTHS.	41	31	17	16	22	26	19	34	58	10	274	277

* 5 Inquests. † 6 Inquests. ‡ 2 Inquests. ¶ Typhus. ⁑ 6 Inquests. ‖ 4 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,680.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 Weeks ending 28th September.	4 Weeks ending 26th October.	5 weeks ending 30th November.	TOTAL.	DISEASES.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	5 Weeks ending 30th November.	TOTAL.
..	1	..	1	.... Small-pox	4	1	4	9
17	40	41	98	.... Chicken-pox	..	2	..	2
19	48	104	171	..... Measles	55	85	136	276
28	26	33	87	.... Scarlatina	10	25	15	50
2	3	10	15	.... Diphtheria	..	1	6	7
47	33	40	120	.. Whooping-cough ..	65	103	184	352
6	3	1	10	..... Croup	..	3	6	9
1001	376	265	1642	.....Diarrhœa.. ...	414	175	167	756
15	7	11	33	.... Dysentery	32	21	21	74
4	..	....	4	..... Cholera	..	..	..	..
20	16	19	55	.... Erysipelas	23	23	14	80
..	..	....	..	.. Puerperal Fever ..	..	..	..	..
15	8	10	33	..... Insanity	34	20	31	85
437	467	967	1871	Bronchitis and Catarrh	616	751	1282	2649
7	13	22	42	..... Pleurisy	35	62	114	211
22	13	38	73	... Pneumonia				
7	5	3	15	.... Carbuncle	....	..	....	..
3471	3468	3929	10868	Accidents, and all other Diseases	3052	3205	3557	9814
5118	4527	5493	15138	..... TOTAL	4340	4477	5557	14374

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Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, DECEMBER 14, 1861. [No. 72.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.	NO RETURN.	INS.	INS.
Mean @ 32° F.	—	29·559	29·603		29·563	28 666
Highest (Unreduced)	—	29·930	29·904		29·950	29·032
Lowest (Unreduced)	—	29·077	29 300		29·125	28·320
Range	—	0·853	0·664		0·825	0·712
Temperature.						
Adopted Mean	47·6	46·1	46·2		45·7	44·5
Range for Week	16·0	17·7	17·8		18·3	14·4
Daily Range	9·3	10·8	10·1		9·9	6·7
Maximum in Shade	56·0	55·2	55·8		53·8	52·5
Minimum in Shade	40·0	37·5	38·0		35·5	38 1
Maximum in Sun	—	53·2	—		56·4	49·0
Maximum in Sun: Black bulb in Vacuo	—	55·2	73·8		—	—
Minimum on Grass	—	29·9	30·0		30·5	32·1
Temperature in Ground at surface	—	43·26	45·14		—	—
Temperature 6 inches below	—	42·70	43·75		—	40·78(a)
Temperature 12 inches below	—	42·64	43·83		—	41·43(b)
Temperature of Evaporation	45·5	44·9	44·3		44·5	42·6
Temperature of Dew Point	43·2	43·5	42·1		43·1	40·4
Temperature of Air—Dew Point	4·4	2·6	4·1		2·6	4·1
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	3·18	3·26	3·14		3·18	2·87
Required to Saturate do	0·58	0·35	0·50		0·36	0·48
Weight of a cubic foot of Air	540·0	541·1	541·8		542·2	526·3
Degree of Humidity (Saturation—1,000)	0·859	0·916	0·867		0·911	0·858
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	3·86	3·91	3·71		3·84	3·47
Elastic force of Vapour	0·279	0·283	0·268		0·278	0·251
Clouds (Covered—10 Clear—0)	—	6·2	7·8		5·6	—
Prevailing Winds	—	SE.	SW.		S., SW.	S., SW.
Rain	—	0·666	0·530		0·751	0·850
Days on which it fell	—	6	6		6	7
Ozonometer.						
Moffat (0—10)	—	6·57	—		5·28	6·64
Schonbein (0—10)	—	4·86	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·051	0·029	0·045		0·029	0·043
Weekly Evaporation	0·357	0·203	0 315		0·203	0·301

(*a*) 3 feet below the surface. (*b*) 4 feet below the surface.

There were 5 barometric oscillations during the week, the amount being 2 555 inches. There were 5 temperature oscillations during the week, the amount being 52·1°.

The mean temperature of the week was 5·7° above the average of the last twelve years, and 5·3° above the corresponding week last year.

The mean temperature was the highest at the Royal Infirmary and the lowest at Ollerenshaw.

The degree of humidity was the lowest at Ollerenshaw and the highest at Old Trafford.

Ozone occurred upon seven days at Old Trafford, Thelwall, and Ollerenshaw, and it is remarkable that the amount at Old Trafford was greatly in excess of its usual amount, as compared with the other two stations; the amount at Old Trafford has generally been greatly below that at either Sale or Ollerenshaw.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
December 17th, 1861.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper, C

During the Week ending Saturday, t

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1861	" " 185,050														
	Poor Law Districts.							Public Institutions.							
									Royal Infirmary.					Children	
DISEASES.	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	1	..	..	1	1	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..
Diphtheria	1	..	..	..	..	..	1	..	..	..	..	..	..	1	..
Whooping-cough	..	..	1	..	3	4	8	..	..	2	..	..	..	5	3
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	2	..	2	..	1	3	8	1	..	2	..	..	1	6	2
Dysentery	..	..	..	..	1	..	1	..	..	..	.	..	..	..	..
Continued Fever	*1	..	..	1	1	..	3	4	1	..	..	1	..	4	1
Erysipelas	..	..	..	..	..	1	1	1	..	1	..	..	..	..	..
Rheumatism	2	..	1	3	1	..	7	2	1	17	2	1	..	..	1
Neuralgic Affections	..	..	..	1	..	..	1	1	..	..	..	..	..	1	1
Constitutional Syphilis	..	..	..	1	..	1	2	1	..	13	..	..	..	1	1
Phthisis	1	1	2	1	..	1	6	6	..	29	1	3	2	2	2
Insanity	..	..	..	..	..	..	..	4	..	3	..	..	..	..	..
Bronchitis, Influenza & Catarrh	..	3	4	4	8	16	35	17	2	68	6	7	1	17	2
Pleurisy and Pneumonia	1	..	1	..	..	..	2	2	..	..	..	2	1	1	1
Skin Diseases	..	..	..	..	..	..	..	6	..	14	..	1	..	3	3
Dyspepsia	1	..	..	1	1	2	5	4	..	37	..	1	..	1	4
Accidents and diseases not classified	11	8	13	8	5	7	52	42	30	222	3	4	9	46	4
TOTAL	20	12	24	21	21	35	133	92	35	408	12	21	15	88	25

* Typhus.

ANITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

December, 1861.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329	....		.... 477.			.. 646. ..		508	....	....	.....	Area in Statute Acres.
70,967.	....		.. 68,209. ..			.. 44,850 ..		21739	....	....	.....	Population in 1861.
Public Institutions.			Poor Law Districts.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	1	..	..	..	..	..	..	..	..	1	2	Chicken-pox
8	5	..	..	1	..	1	4	..	..	..	26	Measles
..	..	..	..	..	..	..	1	1	..	..	4	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	2	Diphtheria
..	7	..	1	..	..	..	5	..	5	2	38	Whooping-cough
..	..	..	..	..	..	1	1	..	..	..	2	Croup
1	..	3	..	..	..	..	1	..	3	2	31	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	2	Dysentery
..	5	..	2	1	3	1	2	..	6	1	37	Continued Fever
..	2	..	..	..	..	..	3	..	2	..	10	Erysipelas
2	9	1	..	1	..	..	7	..	9	1	63	Rheumatism
..	4	..	..	..	..	..	3	..	..	1	12	Neuralgic Affections
..	2	..	..	..	..	..	1	..	3	1	25	Constitutional Syphilis
..	7	..	..	..	1	2	2	..	6	..	69	Phthisis
4	..	..	..	..	..	..	..	..	..	1	12	Insanity
4	41	7	1	..	8	5	15	5	10	1	261	Bronchitis, Influenza, and Catarrah.
1	4	..	1	..	..	..	3	..	2	..	20	Pleurisy & Pneumonia.
6	6	1	4	1	..	..	..	..	..	2	47	Skin Disease.
..	8	..	..	2	2	1	3	..	7	..	79	Dyspepsia
5	50	2	3	3	6	4	45	1	30	4	571	Accidents and diseases not classified
31	151	14	10	9	20	15	96	7	83	17	1314	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN,
(2) " T. W. DYSON,
(3) " JOHN ARMSTRONG,
(4) Dr. J. C. FLETCHER,
(5) Mr. C. S. BOMPAS,
(6) " EVAN THOMAS,
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(8) Mr. M. ROWLAND DAY,
(9) } Mr. W. J. MALLETT,
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(24) " JOHN RAYNER,
(25) " J. M. KIRKMAN,
(26) " A. F. PENNINGTON
(27) " J.V.L. WESTMACOTT

+ Measles very prevalent in this district.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnship., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	1	..	1	..
Measles	3	1	1	1	..	1	2	..	1	..	10	12
Whooping-cough	4	3	2	3	..	1	..	1	5	2	21	20
Scarlatina	2	1	..	..	..	..	1	..	..	..	4	3
Diarrhœa	..	..	..	..	..	3	5	..	4	..	12	8½
Fever	2	1	3	..	1	..	*2	‡2	2	‖2	15	13½
Diseases of the Lungs	10	14	..	11	9	9	5	9	..	5	72	84
Other causes	15	4	24	3	9	11	†28	7	22	7	130	132
TOTAL NO. OF DEATHS.	36	24	30	18	19	25	43	19	35	16	265	273
TOTAL NO. OF BIRTHS.	37	30	19	20	15	41	27	25	41	16	271	277

* Typhus. † 4 Inquests. ‡ 1 Gastric. ‖ 1 Typhus.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.
Population in 1861, 161,680.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 Weeks ending 28th September.	4 Weeks ending 26th October.	5 weeks ending 30th November.	TOTAL.	DISEASES.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	5 Weeks ending 30th November.	TOTAL.
..	1	..	1	.... Small-pox	4	1	4	9
17	40	41	98	.... Chicken-pox	..	2	..	2
19	48	104	171	..... Measles	55	85	136	276
28	26	33	87	.... Scarlatina ...	10	25	15	50
2	3	10	15	.... Diphtheria	..	1	6	7
47	33	40	120	.. Whooping-cough ..	65	103	184	352
6	3	1	10	..... Croup	..	3	6	9
1001	376	265	1642	.....Diarrhœa.. ...	414	175	167	756
15	7	11	33	.... Dysentery	32	21	21	74
4	..	....	4	..... Cholera	..	..	..	..
20	16	19	55	.... Erysipelas	23	23	14	80
..	..	....	..	.. Puerperal Fever ..	..	..	..	..
15	8	10	33	..... Insanity	34	20	31	85
437	467	967	1871	Bronchitis and Catarrh	616	751	1282	2649
7	13	22	42	..... Pleurisy	35	62	114	211
22	13	38	73	... Pneumonia				
7	5	3	15	.... Carbuncle	....	..	....	..
3471	3468	3929	10868	Accidents, and all other Diseases	3052	3205	3557	9814
5118	4527	5493	15138	..... TOTAL	4340	4477	5557	14374

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. II.] WEEK ENDING SATURDAY, DECEMBER 21, 1861. [No. 73.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.	Thelwall, J. Atkinson, Esq.	Ollerenshaw, A. Neild, Esq.
Barometer.	INS.	INS.	INS.		INS.	INS.
Mean @ 32° F.	—	30·162	30·171		30·181	29 319
Highest (Unreduced)	—	30·403	30·409		30·458	29·524
Lowest (Unreduced)	—	29·932	29·988		29·994	29·154
Range	—	0·471	0·412		0·464	0·370
Temperature.						
Adopted Mean	45·4	44·5	43·6		43·8	41·5
Range for Week	12·0	13·0	22·1		12·8	12·9
Daily Range	3·5	4·2	7·3		4·1	3·9
Maximum in Shade	51·0	50·0	50·1		49·0	46·5
Minimum in Shade	39·0	37·0	28·0		36·2	33·6
Maximum in Sun	—	51·2	—		50·0	46·3
Maximum in Sun: Black bulb in Vacuo	—	54·0	60·8		—	—
Minimum on Grass	—	31·7	23·7		26·8	31·2
Temperature in Ground at surface	—	43·63	43·32		—	40·31
Temperature 6 inches below	—	43·41	43·60		—	—
Temperature 12 inches below	—	44·21	44·70		—	41·81
Temperature of Evaporation	42·8	43·4	41·5		42·2	40·0
Temperature of Dew Point	39·8	42·1	39·0		40·3	38·1
Temperature of Air—Dew Point	5·6	2·4	4·6		3·5	3·4
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·82	3·07	2·74		2·88	2·65
Required to Saturate do	0·74	0·28	0·52		0·40	0·40
Weight of a cubic foot of Air	553·7	553·8	555·2		555·3	523·3
Degree of Humidity (Saturation—1,000)	0·812	0·917	0·838		0·872	0·885
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	3·39	3·71	3·29		3·46	3·18
Elastic force of Vapour	0·245	0·268	0·238		0·250	0·230
Clouds (Covered—10 Clear—0)	—	9·1	9·4		8·6	9·8
Prevailing Winds	—	N., NW., S.	NE, W., NW.		NW.	NE, W.
Rain	—	0·317	0·210		0·219	0·635
Days on which it fell	—	5	2		3	5
Ozonometer.						
Moffat (0—10)	—	1·00	—		1·43	4·35
Schonbein (0—10)	—	0·71	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·059	0·026	0·046		0·036	0·032
Weekly Evaporation	0·413	0·182	0·322		0·252	0·224

NO RETURN.

There were 4 barometric oscillations during the week, the amount being 1·114 inches. There were 2 temperature oscillations, the amount being 16·1°.

The mean temperature of the week was 6·5° above the average of the last twelve years, and 14·8° above the corresponding week last year.

The mean temperature was the highest at the Royal Infirmary and the lowest at Ollerenshaw.

The degree of humidity was the lowest at the Royal Infirmary and the highest at Old Trafford.

Ozone occurred upon one day at Old Trafford, five days at Thelwall, and on every day at Ollerenshaw.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
December 26, 1861.

MANCHESTER AND SAL

New Cases of Disease coming under Treatment in Pauper, C

During the Week ending Saturday, t

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1861	" " 185,050														
	Poor Law Districts.							Public Institutions.							
									Royal Infirmary.					Children	
DISEASES.	St. Peter's	St. Andrew's	St. George's	Cathedral	St. Jude's	St. Michael's	Total of Districts.	Workhouse.	In-patients.	Out-patients.	District I.	District II.	District III.	St. Mary's Hospital.	Clinical Hospital.
	1	2	3	4	5	6		7	8	9	10	11	12	13	14
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	1	2	..	3	2	..	..	..	1	2	1	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Diphtheria	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Whooping-cough	..	..	1	1	..	1	3	..	..	4	..	1	..	5	2
Croup	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..
Diarrhœa	..	2	..	..	..	..	2	..	..	..	..	..	..	3	2
Dysentery	..	..	..	2	..	..	2	..	..	..	..	..	..	2	..
Continued Fever	*1	..	1	..	2	1	5	9	2	1	2	..	4	9	..
Erysipelas	..	..	..	..	..	..	..	1	..	2	..	..	..	..	..
Rheumatism	1	1	..	3	1	..	6	3	1	..	2	..	3	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Constitutional Syphilis	..	..	..	1	..	..	1	1	..	5	..	..	..	3	..
Phthisis	..	..	..	1	..	..	1	1	..	9	..	2	5	1	1
Insanity	..	1	..	..	..	..	1	2	..	..	..	..	..	..	..
Bronchitis, Influenza & Catarrh	2	5	13	4	9	15	48	22	..	45	4	5	5	17	4
Pleurisy and Pneumonia	1	..	..	..	..	..	1	..	1	2	1	..	3	..	2
Skin Diseases	1	..	..	..	..	..	1	9	..	9	..	..	..	7	..
Dyspepsia	..	..	..	..	..	..	..	..	1	20	..	..	..	2	3
Accidents and diseases not classified	13	6	8	5	6	6	44	34	31	239	9	5	9	34	6
TOTAL	20	15	23	19	20	23	120	84	36	336	18	14	32	85	20

* Typhus, fatal.

NITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

December, 1861.

LFORD.			HULME.			CHORL-TON.	ARD-WICK					
1,329	....		.... 477.	....		.. 646. ..	508.	....	....	.....		Area in Statute Acres.
70,967.	....		.. 68,209.	..		.. 44,850 ..	21739	....	....	.....		Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Work-house.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	1	..	..	..	..	..	..	..	..	..	1	Chicken-pox
5	7	..	..	..	..	..	2	..	..	..	24	Measles
..	2	..	..	..	..	..	..	..	..	..	3	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	..	..	..	2	..	3	..	3	1	24	Whooping-cough
..	..	..	..	..	..	..	..	..	1	..	2	Croup
..	1	4	..	..	..	..	1	..	2	..	15	Diarrhœa
..	1	..	..	..	..	..	..	..	..	..	5	Dysentery
..	5	..	1	1	3	1	2	..	5	1	53	Continued Fever
1	1	..	..	..	1	..	3	..	3	1	13	Erysipelas
.	3	..	..	1	..	..	7	..	8	2	37	Rheumatism
.	3	..	1	1	..	..	1	..	..	..	9	Neuralgic Affections
1	4	..	..	..	..	..	1	..	4	..	20	Constitutional Syphilis
.	7	..	..	..	1	1	2	..	7	..	38	Phthisis
2	..	..	..	..	..	..	..	..	..	1	6	Insanity
9	44	8	2	3	5	5	13	2	9	4	258	Bronchitis, Influenza, and Catarrah.
.	4	..	..	..	..	1	2	..	1	1	19	Pleurisy & Pneumonia.
6	6	..	1	..	1	1	2	..	..	3	46	Skin Disease.
.	9	..	..	1	..	1	3	..	5	4	49	Dyspepsia
4	44	2	5	2	4	3	21	3	29	6	545	Accidents and diseases not classified
28	142	14	10	9	17	13	63	5	77	24	1168	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN.
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	4	1	..	..	1	2	1	..	..	..	9	12
Whooping-cough	4	5	..	2	2	..	..	2	4	2	21	20
Scarlatina	1	1	..	..	..	1	..	..	..	..	3	4
Diarrhœa	..	2	..	..	1	1	..	..	..	..	4	10
Fever	1	..	..	1	3	..	1	*1	4	..	11	14
Diseases of the Lungs	9	14	..	7	..	9	2	6	2	..	49	84
Other causes	12	8	21	6	9	8	16	10	29	4	123	133
TOTAL No. of DEATHS.	31	31	21	16	16	21	20	19	39	6	220	277
TOTAL No. of BIRTHS.	42	34	24	20	24	31	46	29	58	19	327	276

* Typhus.

Monthly Return of New Cases of Disease coming under Treatment

In 10 *Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.*
Population in 1861, 161,680.

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4 Weeks ending 28th September.	4 Weeks ending 26th October.	5 weeks ending 30th November.	TOTAL.	DISEASES.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	5 Weeks ending 30th November.	TOTAL.
..	1	..	1	.... Small-pox	4	1	4	9
17	40	41	98	.... Chicken-pox	..	2	..	2
19	48	104	171	..... Measles	55	85	136	276
28	26	33	87	.... Scarlatina	10	25	15	50
2	3	10	15	.... Diphtheria	..	1	6	7
47	33	40	120	.. Whooping-cough ..	65	103	184	352
6	3	1	10	..... Croup	..	3	6	9
1001	376	265	1642	.....Diarrhœa.. ...	414	175	167	756
15	7	11	33	.... Dysentery	32	21	21	74
4	..	....	4	..... Cholera	..	..	..	..
20	16	19	55	.... Erysipelas	23	23	14	80
..	..	....	..	.. Puerperal Fever ..	..	..	..	..
15	8	10	33	..... Insanity	34	20	31	85
437	467	967	1871	Bronchitis and Catarrh	616	751	1282	2649
7	13	22	42	..... Pleurisy	35	62	114	211
22	13	38	73	.. Pneumonia				
7	5	3	15	.... Carbuncle	....	..	....	..
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Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. II.] WEEK ENDING SATURDAY, DECEMBER 28, 1861. [No. 74.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD.

	Royal Infirmary, M. R. DAY, Esq.	Old Trafford, G. V. VERNON, Esq.	Sale, J. CURTIS, Esq.	Bowdon, Alderman NEILD.	Thelwall, J. ATKINSON, Esq.	Ollerenshaw, A. NEILD, Esq.
Barometer.	INS.	INS.	INS.		INS.	INS.
Mean @ 32° F.	—	30·298	30·300		30·317	29·406
Highest (Unreduced)	—	30·528	30·514		30·532	29·620
Lowest (Unreduced)	—	30·148	30·150		30·130	29·286
Range	—	0·380	0·364		0·402	0·334
Temperature.						
Adopted Mean	36·7	32·2	34·7		32·7	33·9
Range for Week	10·0	20·2	25·7		23·0	11·8
Daily Range	8·0	12·9	16·8		12·9	6·7
Maximum in Shade	41·0	44·0	46·2		43·0	40·8
Minimum in Shade	31·0	23·8	20·5		20·0	29·0
Maximum in Sun	—	46·7	—		47·2	39·2
Maximum in Sun: Black bulb in Vacuo	—	47·8	67·2		—	—
Minimum on Grass	—	21·0	16·0		15·0	23·5
Temperature in Ground at surface	—	35·48	33·25		—	34·16
Temperature 6 inches below	—	34·81	36·28		—	—
Temperature 12 inches below	—	38·22	39·07		—	36·58
Temperature of Evaporation	34·9	30·9	32·5		32·0	32·4
Temperature of Dew Point	32·3	28·0	28·6		30·6	29·8
Temperature of Air—Dew Point	4·4	4·2	6·1		2·1	4·1
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.		GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·11	1·91	1·88		1·96	1·92
Required to Saturate do	0·46	0·20	0·49		0·21	0·37
Weight of a cubic foot of Air	541·7	571·0	568·3		570·9	533·7
Degree of Humidity (Saturation—1,000)	0·852	0·866	0·784		0·923	0·840
	INS.	INS.	INS.		INS.	INS.
Water in a vertical column of the Atmosphere	2·53	2·12	2·17		2·50	2·30
Elastic force of Vapour	0·183	0·153	0·157		0·181	0·166
Clouds (Covered—10 Clear—0)	—	4·8	3·0		3·2	6·2
Prevailing Winds	—	E.	NE. NW. SE.		E.	E.
Rain	—	0·000	0·000		0·020	0·000
Days on which it fell	—	0	0		1	0
Ozonometer.						
Moffat (0—10)	—	0·00	—		0·86	5·36
Schonbein (0—10)	—	0·00	—		—	—
	INS.	INS.	INS.		INS.	INS.
Daily Evaporation	0·035	0·029	0·044		0·005	0·029
Weekly Evaporation	0·245	0·203	0·308		0·035	0·203

NO RETURN.

There were 5 barometric oscillations during the week, the amount being 0·771 inches. There were 4 temperature oscillations during the week, the amount being 35·4°.

The mean temperature of the week was 6·2° below the average of the last twelve years, and 11·4° above the corresponding week last year.

The lowest mean temperature occurred at Old Trafford and the highest at the Royal Infirmary.

The degree of humidity was the highest at Thelwall and the least at Sale.

No ozone was found at Old Trafford; it occurred on four days at Thelwall and every day at Ollerenshaw. The large quantity found at the latter station is worthy of note as compared with the other stations, and is no doubt owing to its much higher elevation.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
January 1, 1862.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Paupe

During the Week ending Saturda

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1861	" " 185,050														
DISEASES.	Poor Law Districts.							Public Institutions.							
									Royal Infirmary.					Childr	
	St. Peter's 1	St. Andrew's 2	St. George's 3	Cathedral 4	St. Jude's 5	St. Michael's 6	Total of Districts.	Workhouse. 7	In-patients. 8	Out-patients. 9	District I. 10	District II. 11	District III. 12	St. Mary's Hospital. 13	Clinical 1
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	1	..	
Measles	..	..	..	..	3	..	3	..	..	..	..	1	1	..	
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1	..	..	
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough	..	1	1	1	3	3	9	1	..	5	..	2	1	6	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhœa	..	..	..	1	..	1	2	1	..	..	1	..	2	4	
Dysentery	..	..	..	..	..	..	..	1	..	..	..	..	..	..	
Continued Fever	4	..	..	6	..	..	10	5	2	..	2	1	4	1	
Erysipelas	..	..	..	..	..	..	..	..	..	2	..	..	..	..	
Rheumatism	..	..	..	1	..	..	1	2	..	..	..	..	2	..	
Neuralgic Affections	..	..	..	..	..	..	..	..	..	..	..	1	..	..	
Constitutional Syphilis	..	..	..	..	..	..	..	..	..	7	..	..	..	1	1
Phthisis	..	1	2	..	..	3	6	3	1	10	1	2	2	..	
Insanity	..	..	..	..	..	..	..	2	..	..	..	..	..	..	
Bronchitis, Influenza & Catarrh	4	4	8	5	7	6	34	11	1	38	3	2	6	16	3
Pleurisy and Pneumonia	2	..	..	..	..	..	2	..	..	3	1	1	1	1	1
Skin Diseases	..	..	..	..	..	..	..	6	..	12	..	..	..	8	8
Dyspepsia	..	1	..	..	..	1	2	..	1	15	2	1	..	..	
Accidents and diseases not classified	8	5	6	3	5	14	41	39	20	216	10	5	7	17	7
TOTAL	18	12	17	17	18	28	110	71	25	308	20	17	27	54	

ANITARY ASSOCIATION.

d Public Institutions of Manchester and adjoining Districts,

f December, 1861.

SALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329			477			646		508				Area in Statute Acres.
70,967			68,209			44,850		21739				Population in 1861.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
17	18	19	20	21	22	23	24	25	26	27		
..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	1	2	Chicken-pox
6	..	..	..	..	..	..	2	..	..	..	14	Measles
..	..	..	..	..	..	1	..	..	..	..	2	Scarlatina
..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	1	..	1	1	..	..	2	..	3	1	36	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	2	..	..	1	..	..	..	3	1	18	Diarrhœa
..	..	..	..	..	..	..	..	..	..	1	2	Dysentery
..	1	..	1	..	2	..	4	6	4	3	47	Continued Fever
..	..	..	..	..	..	..	1	..	..	..	3	Erysipelas
..	3	1	..	1	..	..	11	..	6	1	28	Rheumatism
..	2	..	..	1	..	2	1	..	2	..	10	Neuralgic Affections
1	2	..	..	..	..	..	1	..	4	1	17	Constitutional Syphilis
..	3	..	..	..	..	1	2	..	6	..	37	Phthisis
2	..	..	..	..	..	..	..	..	..	1	5	Insanity
4	40	7	..	3	8	3	15	2	10	2	212	Bronchitis, Influenza, and Catarrah.
..	2	..	1	..	..	..	3	..	1	1	17	Pleurisy & Pneumonia.
..	2	..	1	..	..	..	1	..	..	1	32	Skin Disease.
..	7	..	2	..	1	..	2	..	5	..	41	Dyspepsia
2	17	1	2	3	2	3	38	2	25	4	461	Accidents and diseases not classified
15	80	11	8	9	14	10	83	10	69	18	984	TOTAL.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. R. M. MANN.
(2) " T. W. DYSON,
(3) " JOHN ARMSTRONG,
(4) Dr. J. C. FLETCHER,
(5) Mr. C. S. BOMPAS,
(6) " EVAN THOMAS,
(7) " J. BROADBENT,

(8) Mr. M. ROWLAND DAY,
(9) Mr. W. J. MALLETT,
(10) " W. H. HUGHES,
(11) " C. H. BRADDON,
(12)
(13) " H. RUNCORN,
(14) Dr. WHITEHEAD,

(15) Mr. W. GOLLAND,
(16) " J. TEALE,
(17) " T. F. BROWNBILL
(18) " J. O. BRADBURY,
(19) " W. B. STOTT,
(20) " T. G. RICHMOND,
(21) Dr. ALEX. WILSON,

(22) Mr. H. M. WILLIAMSON.
(23) " W. B. MIDWOOD,
(24) " JOHN RAYNER,
(25) " J. M. KIRKMAN.
(26) " A. F. PENNINGTON
(27) " J.V.L. WESTMACOTT

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for the last four weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	..
Measles	2	1	..	..	..	2	1	..	..	1	7	11
Whooping-cough	4	2	..	4	..	..	2	..	..	3	15	21
Scarlatina	..	1	..	..	..	..	..	..	1	..	2	4
Diarrhœa	..	1	..	..	1	1	1	..	..	..	4	7
Fever	3	1	3	1	2	2	..	1	‡2	1	16	12
Diseases of the Lungs	10	11	..	6	1	11	1	3	9	5	57	72
Other causes	*15	18	28	7	12	†14	3	8	ℓ40	4	149	130
TOTAL NO. OF DEATHS.	34	35	31	18	16	30	8	12	52	14	250	257
TOTAL NO. OF BIRTHS.	41	27	14	20	12	27	28	24	46	9	248	292

* 5 Inquests. † 2 Inquests. ‡ 1 Typhus. ℓ 27 Inquests.

Monthly Return of New Cases of Disease coming under Treatment

In 10 Charitable Institutions in St. Marylebone, LONDON. Medical Officer of Health, Dr. R. D. Thomson.
Population in 1861, 161,680.

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.
Population in 1861, 390,815.

4 Weeks ending 28th September.	4 Weeks ending 26th October.	5 weeks ending 30th November.	TOTAL.	DISEASES.	4 Weeks ending 28th September.	4 Weeks ending 26th October.	5 Weeks ending 30th November.	TOTAL.
..	1	..	1	.... Small-pox	4	1	4	9
17	40	41	98	.... Chicken-pox	..	2	..	2
19	48	104	171	..... Measles	55	85	136	276
28	26	33	87	.... Scarlatina	10	25	15	50
2	3	10	15	.... Diphtheria	..	1	6	7
47	33	40	120	.. Whooping-cough ..	65	103	184	352
6	3	1	10	..... Croup	..	3	6	9
1001	376	265	1642	.....Diarrhœa.. ...	414	175	167	756
15	7	11	33	.... Dysentery	32	21	21	74
4	..	....	4	..... Cholera	..	..	..	..
20	16	19	55	.... Erysipelas	23	23	14	80
..	..	....	..	.. Puerperal Fever ..	..	..	..	..
15	8	10	33	..... Insanity	34	20	31	85
437	467	967	1871	Bronchitis and Catarrh	616	751	1282	2649
7	13	22	42	..... Pleurisy	35	62	114	211
22	13	38	73	... Pneumonia				
7	5	3	15	.... Carbuncle	....	..	....	..
3471	3468	3929	10868	Accidents, and all other Diseases	3052	3205	3557	9814
5118	4527	5493	15138	..... TOTAL	4340	4477	5557	14374

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

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